Gulf Coast Water Authority

Consumer Confidence Report 2020





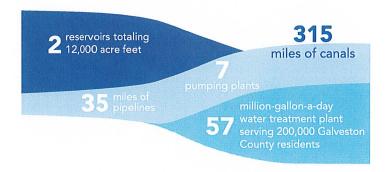
Water is essential for life, economic growth and national security. That's why we make it our mission to reliably provide vital water services to communities, businesses, farmers, and refining and petrochemical industries in our 3-county, 1.5 million-population service area.

We maintain an extensive system to deliver up to 200 million gallons of water a day from the Brazos River Basin, our primary water source, to wholesale customers across Brazoria, Galveston and Fort Bend counties.

Since established as a water utility by the Texas Legislature in 1965, we've continued to grow to meet the ever-changing needs of the communities and businesses we serve.

WHAT WE DO

We maintain an extensive water delivery system that carries raw water from the Brazos River, as well as Chocolate, Mustang and Halls bayous, directly to our wholesale customers and to our water treatment plant.



Our canal division continuously monitors and maintains 6 pumping plants, our canal system and more than 600 canal crossings. The division also provides water to farmers with a total of 17,300 acres.

Our industrial infrastructure includes an industrial pumping plant and pipeline system that provides water to major industries in the Texas City industrial complex. The new Joseph A. Willhelm Industrial Pumping Plant expands pumping capacity by almost 25 percent to 95 million gallons a day, ensuring long-term reliability and industrial growth.

Our water treatment plant is manned around the clock to produce tap water to serve almost 200,000 residents across Galveston County. The Thomas Mackey Water Treatment Plant has a daily production capacity of more than 57 million gallons.

GCWA is governed by a 10-member Board of Directors appointed by the Brazoria, Fort Bend and Galveston County Commissioners Courts to represent industrial, municipal and agricultural interests in our service area.

MAJOR MILESTONES

EARLY 1900s	Legacy entities built canals for 1900s agriculture	
1949	Texas City industries built industrial pumping plant	
1965	Texas Legislature established GCWA	
1971	Acquired private Texas City industrial water infrastructure assets	
1981	Acquired Thomas Mackey Water Treatment Plant in Texas City	
1988	Acquired Brazos River Authority water rights and canal assets	
2016	Established rice farming water metering program to reduce water use	
2020	Began construction on replacement \$8.7 million Chocolate Bayou Pumping Plant	
2020	Commissioned new \$19 million Joseph A. Willhelm Industrial	A LIVER OF THE PARTY OF THE PAR

PLANNING FOR THE FUTURE

As we work today to reliably deliver water to our customers, we're also planning to meet demand for decades to come.

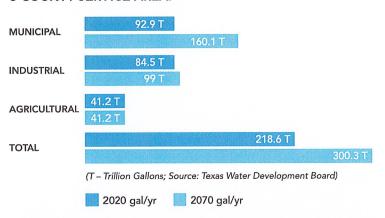
Water Resource Planning: By evaluating current customer usage and analyzing population and growth projections, we're developing water resource and infrastructure plans in coordination with our customers to meet future needs.

Capital Projects: Guided by our comprehensive strategy, we're prioritizing major capital projects to replace aging infrastructure to ensure reliability while minimizing customer rate impacts.

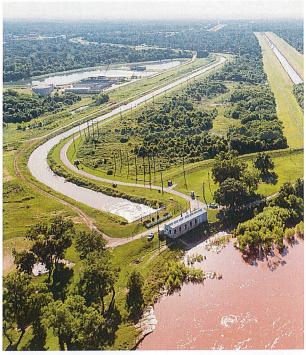
New Water Resources: Water is a limited resource but demand will continue to grow. In the next 50 years water demand in Texas is estimated to rise 17 percent, while water supply is predicted to fall by 11 percent.

To meet future demand in our 3-county service area, we'll diversify our water resources beyond the Brazos River Basin, our primary source of water. This could include better use of reclaimed water, acquisition of deep-water aquifer wells, and longer-term initiatives such as desalination.

ANNUAL WATER DEMAND PROJECTED FOR OUR 3-COUNTY SERVICE AREA:













GULF COAST WATER AUTHORITY

3630 FM 1765 | Texas City, TX 77591 (409) 935-2438 | www.GulfCoastWaterAuthorityTX.gov

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Gulf Coast Water Authority CCR Summary Data 2020

		2020 Turbidity	Summary
Month	Highest NTU	Average NTU	% Samples < 0.3 NTU
Jan-20	0.10	0.06	100.0%
Feb-20	0.06	0.04	100.0%
Mar-20	0.10	0.04	100.0%
Apr-20	0.10	0.04	100.0%
May-20	0.08	0.05	100.0%
Jun-20	0.07	0.04	100.0%
Jul-20	0.06	0.05	100.0%
Aug-20	0.06	0.05	100.0%
Sep-20	0.08	0.05	100.0%
Oct-20	0.07	0.04	100.0%
Nov-20	0.06	0.04	100.0%
Dec-20	0.09	0.05	100.0%
Yr. Minimum	0.06	0.04	
Yr. Maximum	0.10	0.06	
Yr. Average	0.08	0.05	

			2020 TOC Removal	at WTP PC)F	
	Raw	Alk	POE	Removal	TCEQ	
Date	mg/L	mg/L	mg/L	%	%	Ratio
Jan-20	3.03	168	1.92	36.70	15.00	2.45
Feb-20	3.31	155	2.02	39.10	15.00	2.61
Mar-20	3.64	140	2.26	38.00	15.00	2.54
Apr-20	3.71	132	2.45	33.70	15.00	2.25
May-20	3.89	139	2.37	39.30	18.30	2.27
Jun-20	3.92	122	2.21	43.70	22.50	2.03
Jul-20	3.24	134	1.92	40.90	17.00	2.49
Aug-20	3.09	138	1.78	42.60	15.00	2.84
Sep-20	2.96	153	1.83	38.20	15.00	2.55
Oct-20	3.06	138	1.78	41.80	15.00	2.79
Nov-20	2.59	148	1.61	38.10	15.00	2.54
Dec-20	2.65	156	1.67	36.40	15.00	2.43
Average	3.26	143.58	1.99	39.04	16.07	2.48
Maximum	3.92	168.00	2.45	43.70	22.50	2.84
Minimum	2.59	122.00	1.61	33.70	15.00	2.03

Gulf Coast Water Authority CCR Summary Data 2020

2020 Chlorite Data

Date	POE	Chlorite Sar	nples
	Maximum	Minimum	Average
	mg/L	mg/L	mg/L
January	0.78	0.25	0.53
February	0.90	0.46	0.57
March	0.37	0.60	0.50
April	0.85	0.34	0.48
May	0.57	0.24	0.39
June	0.36	0.18	0.24
July	0.52	0.16	0.27
August	0.49	0.20	0.33
September	0.44	0.19	0.35
October	0.41	0.24	0.31
November	0.47	0.26	0.34
December	0.38	0.27	0.33
Average	0.55	0.28	0.39
Maximum	0.90	0.60	0.57
Minimum	0.36	0.16	0.24

2020 Chlorine Dioxide Data

Date	POE Chlor	
	Maximum	Minimum
	ppb	ppb
January	0	0
February	0	0
March	0	0
April	0	0
May	0	0
June	0	0
July	0	0
August	0	0
September	0	0
October	0	0
November	0	0
December	0	0
Average	0	0
Maximum	0	0
Minimum	0	0

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER

PLANT NAME

Summary Page

PUBLIC WATER		TV OITV	OR NUMBER:	SWTP - THOMAS MACK	EY WTP - BRAZOS
SYSTEM NAME:	GULF COAST WATER AUTHORITY	TX CITY	Leastify that tom familiar with the informati	on contained in this report and that,	
PWS ID No.: Plant ID No.:		Operator's Signature:	to the best of my knowledge, the informati	on is true camplete, and accurate.	
Report for	January 2020	Certificate No. & Grade:	WO0041290, A	Date:	February 7, 2020
me Month of.		TREATME	NT PLANT PERFORMANCE		
			Number of 4-hour periods when plant wa	as off-line:	0
Number of read	f turbidity readings: lings above 0.10 NTU: lings above 0.3 NTU:	0	Number of 4-hour periods when plant wa but turbidity data was not collected:		0
Number of read Number of read	lings above 0.5 NTU: lings above 1.0 NTU:	0	Number of days when plant was on-line but individual filter turbidity data was no Number of days with readings above 1.0		0 (2)
The state of the s	vable turbidity level: readings above this limit:	0.0 % (1)	Number of days with readings above 5.0		0 (3)
Number of day for no more th	s with a low CT an 4.0 consecutive hours:	0	Average log inactivation for Giardia: Average log inactivation for viruses: Number of days when profiling data was	s not collected:	2.95 91.43 0
for more than	s with a low CT 4.0 consecutive hours:	0 (4)	Number of days when CT data was not o	collected:	0
Minimum disir	fectant residual required leaving the	e plant:	0.5 mg/L, measured as Total Chlor Minimum pH in the last disinfection zon		7.22
	s with a low residual an 4.0 consecutive hours:		Number of days with pH below 7.0 in the	e last disinfection zone:	0.00
	s with a low residual 4.0 consecutive hours:	0 (5)	Number of days when disinfectant resid leaving the plant was not properly moni		0
		DIS	TRIBUTION SYSTEM		
Minimum disinfe	ctant residual required in distribution	on system:	0.5 mg/L, measured as Total Chlo	rine	
Total number of	readings this month: tant residual value:	186 (at least 120	required) (8) Percentage of readings with a low resid	ual this month:	0.0 % (6A)
	ngs with a low residual: ngs with no detectable residual:	0	Percentage of readings with a low resid	ual last month:	0.0 % (6B)
		ADDITIONA	L REPORTS & WORKSHEETS		
The Page 1 Ac	dendum (Public Notices) is not requ	uired because there were no	treatment technique or monitoring/repo	rting violations reported.	
Additional rep Additional rep	ort(s) for individual filter monitoring ort(s) for individual filter monitoring al IFE Reports are required this mon	g required: g submitted:	NONE O Filter Profile (9)	O Filter Assessment (1	O CPE O CPE (11)
/ /		STATISTICAL	ANALYSIS OF TURBIDITY DATA		

Settled Water Stastical Summary Stastical Minimum pH reading: STATISTICAL ANALYSIS OF pH DATA Stastical Minimum pH reading: T.50 pH Stastical Minimum pH reading: T.50 pH Stastical Standard deviation: T.35 pH Stastical Minimum pH reading: T.43 pH				Assessed traditionality	0.25 NTU
Stastical Summary 95 th percentile value: 0.55 NTU IFE Maximum IFE turbidity reading: 0.15 NTU Average IFE turbidity value: 0.06 NTU Standard deviation: 0.022 NTU Stastical Minimum IFEturbidity reading: 0.10 NTU Standard deviation: 0.022 NTU CFE Maximum CFE turbidity reading: 0.10 NTU Average CFE turbidity value: 0.06 NTU Standard deviation: 0.01 NTU Standar	Settled Water	Maximum turbidity reading:	0.76 NTU	Average turbidity value:	
IFE Stastical Minimum IFE turbidity reading: 0.03 NTU Standard deviation: 0.022 NTU CFE Maximum CFE turbidity reading: 0.15 NTU Standard deviation: 0.022 NTU CFE Maximum CFE turbidity reading: 0.10 NTU Average CFE turbidity value: 0.06 NTU Stastical Minimum CFE turbidity reading: 0.10 NTU Standard deviation: 0.011 NTU STATISTICAL ANALYSIS OF pH DATA Last Zone pH Maximum pH reading: 7.50 pH Average pH value: 7.35 pH Stastical Minimum pH reading: 7.22 pH Standard deviation: 0.054 pH	Stastical	Minimum turbidity reading:		Standard deviation:	0.133 1410
FE Maximum Fe turbidity reading: 0.15 NTU Standard deviation: 0.022 NTU	Summary	95th percentile value:	0.55 NTU		
Stastical Summary 95 th percentile IFE value: 0.03 NTU Standard deviation: 0.022 NTU CFE Maximum CFE turbidity reading: 0.10 NTU Average CFE turbidity value: 0.06 NTU Standard deviation: 0.011 NTU NTU Standard deviation: 0.011 NTU Standard deviation: 0.011 NTU NTU Standard deviation: 0.011 NTU Standard deviation: 0.011 NTU	ICC	Maximum IFF turbidity reading:	0.15 NTU	Average IFE turbidity value:	
Startical Summary 95 th percentille IFE value: 0.10 NTU				Standard deviation:	0.022 NTU
CFE Maximum CFE turbidity reading: 0.10 NTU Average CFE turbidity value: 0.06 NTU Standard deviation: 0.011 NTU Standard deviation: 0.011 NTU					
CFE Maximum CFE turbidity reading: 0.10 NTU Standard deviation: 0.011 NTU	Summary	95 percentile IFE value:			
Stastical Summary Minimum CFE turbidity reading: 95 th percentile CFE value: 0.03 NTU 0 NTU 0 Standard deviation: 0.011 NTU 0 STATISTICAL ANALYSIS OF pH DATA Last Zone pH Statical Maximum pH reading: 7.50 pH Average pH value: 7.35 pH Standard deviation: 0.054 pH	CEE	Maximum CFE turbidity reading:	0.10 NTU		*****************************
Summary 95 th percentile CFE value: 0.08 NTU STATISTICAL ANALYSIS OF pH DATA Last Zone pH Maximum pH reading: 7.50 pH Average pH value: 7.35 pH Stastical Minimum pH reading: 7.22 pH Standard deviation: 0.054 pH			0.03 NTU	Standard deviation:	0.011 NTU
Last Zone pH Maximum pH reading: 7.50 pH Average pH value: 7.35 pH Stastical Minimum pH reading: 7.22 pH Standard deviation: 0.054 pH			0.08 NTU		
Last Zone pH Maximum pH reading: 7.50 pH Average pH value: 7.35 pH Stastical Minimum pH reading: 7.22 pH Standard deviation: 0.054 pH	Summary			DATA	
Last Zone pH Maximum pH reading: 7.30 pH Standard deviation: 0.054 pH Stastical Minimum pH reading: 7.22 pH Standard deviation: 0.054 pH		STATIS	TICAL ANALYSIS OF PH	DATA	
Stastical Minimum pH reading: 7.22 pH Standard deviation: 0.054 pH	Last Zono nH	Maximum pH reading:	7.50 pH	Average pH value:	7.35 pH
Stastical Minimum pri reading: 1.22 pri	September Sent Comment		***************************************	Standard deviation:	0.054 pH
	Stastical	Minimum pri reading:	7.22 pm		***************************************

SURFACE WATER MONTHLY OPERATING REPORT
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER Summary Page

PLANT NAME

SYSTEM NAME:	GULF COAST WATER AUTHORITY	TX CITY	OR NUMBER:		ACKEY WTP - BRAZOS
			I certify that an familiar with the	ne information contained in this report and	that,
PWS ID No.:	0840153		to the best of my knowledge, th	ne information is true, complete, and accur	ate.
Plant ID No.:	14813	Operator's Signature:	Morris	E. J. Wille	
Report for the Month of:	February 2020	Certificate No. & Grade:	WO0041290, A	Date:	March 5, 2020
		TREATME	NT PLANT PERFORMANC	E Programme Tolking	
Total number of	of turbidity readings:		Number of 4-hour periods when	plant was off-line:	0
	dings above 0.10 NTU:		Number of 4-hour periods when		
	dings above 0.3 NTU:		but turbidity data was not collect		0
	dings above 0.5 NTU: dings above 1.0 NTU:	0	Number of days when plant was but individual filter turbidity data		0
	wable turbidity level:	454	Number of days with readings a		0 (2)
	readings above this limit:		Number of days with readings a		0 (3)
\ <u> </u>					
	s with a low CT an 4.0 consecutive hours:		Average log inactivation for Gian Average log inactivation for viru		<u>2.57</u> 78.51
	s with a low CT	-	Number of days when profiling		0
	4.0 consecutive hours:	Appendix .	Number of days when CT data w		
Minimum disin	fectant residual required leaving the	plant:	0.5 mg/L, measured as To	tal Chlorine	
Number of day	s with a low residual		Minimum pH in the last disinfect	tion zone:	7.21
for no more tha	an 4.0 consecutive hours:	0	Number of days with pH below 7	7.0 in the last disinfection zone:	0.00
Number of day	s with a low residual		Number of days when disinfecta	ant residual	
for more than 4	4.0 consecutive hours:	0 (5)	leaving the plant was not proper	rly monitored:	0
		DIS	TRIBUTION SYSTEM		
Minimum disinfed	ctant residual required in distributio	n system:	0.5 mg/L, measured as To	tal Chlorine	
Total number of r	eadings this month:	174 (at least 120	required) (8)		
Average disinfect	tant residual value:	3.15	Percentage of readings with a lo	w residual this month:	0.0 % (6A)
Number of readin	gs with a low residual:	0			
Number of readin	gs with no detectable residual:	0	Percentage of readings with a lo	w residual last month:	0.0 % (6B)
		ADDITIONAL	REPORTS & WORKSHEE	TS Propries	Alexander Control (Alexander Con
The Page 1 Add	dendum (Public Notices) is not requ	ired because there were no	treatment technique or monitori	ing/reporting violations reported.	
Additional repo	ort(s) for individual filter monitoring	required:	NONE O	O	O CPE
Additional repo	ort(s) for individual filter monitoring	submitted:	NONE O Filter Profile (9)	O Filter Assessment	(10) CPE (11)
No additions	al IFE Reports are required this mon	th.			
		STATISTICAL A	ANALYSIS OF TURBIDITY I	DATA	
Settle	ed Water Maximum tu	rbidity reading:	1.42 NTU	Average turbidity value:	0.39 NTU
		bidity reading:	0.19 NTU	Standard deviation:	0.208_ NTU
Sur	mmary 95 th percenti	le value:	0.71 NTU		
L C C	***	E turbidity reading:	0.14 NTU	Average IFE turbidity value	ue:0.05 NTU 0.024 NTU
a contract of		Eturbidity reading:	0.02 NTU 0.10 NTU	Standard deviation:	<u>0.024</u> NTO

SURFACE WATER MONTHLY OPERATING REPORT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155) P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

0.06 NTU

0.03 NTU

0.05 NTU

7.36 pH

7.21 pH

7.34 pH

STATISTICAL ANALYSIS OF pH DATA

0.04 NTU 0.006 NTU

7.28 pH

0.037 pH

Average CFE turbidity value:

Standard deviation:

Average pH value:

Standard deviation:

Summary

CFE

Stastical

Summary

Last Zone pH

Stastical

Summary

95th percentile IFE value:

95th percentile CFE value:

Maximum pH reading:

Minimum pH reading:

95th percentile value:

Maximum CFE turbidity reading:

Minimum CFE turbidity reading:

PUBLIC WATER

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER Summary Page

PUBLIC WATER SYSTEM NAME:	GULF COAST WATE	ER AUTHORITY TX	CITY	OF	ANT NAME R NUMBER:	SWTP - THOMAS MACH		
				I certify that I/am f	familiar with the information	tion contained in this report and that ion is true, complete, and accurate	it,	
PWS ID No.: Plant ID No.:	0840153 14813		Operator's Signature:		aux C	Man		
Report for	14013		pportator o orginara.	-Caro				
the Month of:	March 2020		Certificate No. & Grade:	WO0041290, A		Date:	April 2, 2020	
				NT PLANT PERF			0	
Total number o	of turbidity readings:	-	***************************************	Number of 4-hour pe			0	
	dings above 0.10 NTU			Number of 4-hour pe but turbidity data wa		as on-line	0	
1	dings above 0.3 NTU:			Number of days whe				
The state of the s	dings above 0.5 NTU:			but individual filter to		ot collected:		
	vable turbidity level:		0.3	Number of days with	readings above 1.0	NTU:	0 (2)	
The second secon	readings above this li	mit:		Number of days with			0 (3)	
Number of days	s with a low CT			Average log inactiva	tion for Giardia:		3.42	
	an 4.0 consecutive ho	ours:	***************************************	Average log inactiva			103.56	
Number of days	s with a low CT			Number of days whe			0	
for more than 4	1.0 consecutive hours	5: <u> </u>	0 (4)	Number of days whe	n CT data was not o	collected:		
Minimum disini	fectant residual requi	ired leaving the pla			sured as Total Chlor		7.40	
	s with a low residual			Minimum pH in the la			7.12	
for no more tha	an 4.0 consecutive ho	ours:	***************************************			last disinfection zone:	0.00	
and the second s	s with a low residual	_		Number of days whe			0	
for more than 4	1.0 consecutive hours); 	0 (5)	leaving the plant was	s not properly monit	lorea:		
			DIS	TRIBUTION SYST	TEM			
	ctant residual require		ystem:	0.5 mg/L, meas	Sured as Total Chlor	ine		
Total number of i	readings this month:		ystem: 186 (at least 120	0.5 mg/L, meas required) (8)	sured as Total Chlor		0.0 % (6A)	
Total number of i Average disinfec	readings this month: tant residual value:	_	ystem: 186 (at least 120 3.01	0.5 mg/L, meas	sured as Total Chlor		0.0 % (6A)	
Total number of i Average disinfec Number of readir	readings this month:	al:	ystem: 186 (at least 120 3.01 0	0.5 mg/L, meas required) (8)	sured as Total Chlor	ual this month:	0.0 % (6A) 0.0 % (6B)	
Total number of i Average disinfec Number of readir	readings this month: tant residual value: ngs with a low residua	al:	ystem: 186 3.01 0 0	0.5 mg/L, meas required) (8) Percentage of readin	sured as Total Chlor igs with a low reside	ual this month:		
Total number of u Average disinfec Number of readir Number of readir	readings this month: tant residual value: ngs with a low residua ngs with no detectable	al: le residual:	ystem: 186	0.5 mg/L, meas required) (8) Percentage of readin Percentage of readin	sured as Total Chlor gs with a low reside gs with a low reside DRKSHEETS	ual this month: ual last month:		
Total number of a Average disinfect Number of readir Number of readir	readings this month: tant residual value: ngs with a low residu ngs with no detectable dendum (Public Notic	al: le residual: es) is not required	ystem: 186	0.5 mg/L, meas required) (8) Percentage of readin Percentage of readin . REPORTS & WC	sured as Total Chlor gs with a low reside gs with a low reside DRKSHEETS	ual this month:		
Total number of a Average disinfection Number of reading Number of reading The Page 1 Add Additional repo	readings this month: tant residual value: ngs with a low residua ngs with no detectable dendum (Public Notico ort(s) for individual fill	al: le residual: less) is not required	ystem: 186	0.5 mg/L, meas required) (8) Percentage of readin Percentage of readin REPORTS & WC treatment technique	sured as Total Chlor igs with a low reside igs with a low reside DRKSHEETS or monitoring/repo	ual this month: ual last month: rting violations reported.	0.0 % (6B)	
Total number of a Average disinfect Number of readin Number of readin The Page 1 Add Additional repo	readings this month: tant residual value: ngs with a low residu ngs with no detectable dendum (Public Notic	al: le residual: les) is not required lter monitoring required	ystem: 186	0.5 mg/L, meas required) (8) Percentage of readin Percentage of readin REPORTS & WC treatment technique	sured as Total Chlorings with a low residungs with a low residung with a low residual with a low resid	ual this month: ual last month: riting violations reported. Filter Assessment	0.0 % (6B)	
Total number of a Average disinfect Number of readin Number of readin The Page 1 Add Additional repo	readings this month: tant residual value: ngs with a low residual ngs with no detectable dendum (Public Notice ort(s) for individual fill ort(s) for individual fill	al: le residual: les) is not required lter monitoring required	ystem: 186	0.5 mg/L, meas required) (8) Percentage of readin Percentage of readin REPORTS & WC treatment technique	sured as Total Chlorings with a low residungs with a low residung with a low residual with a low resid	ual this month: ual last month: riting violations reported. Filter Assessment	0.0 % (6B)	
Total number of a Average disinfect Number of readin Number of readin The Page 1 Add Additional repo	readings this month: tant residual value: ngs with a low residual ngs with no detectable dendum (Public Notice ort(s) for individual fill ort(s) for individual fill	al: le residual: les) is not required lter monitoring required	ystem: 186 3.01 0 0 ADDITIONAL because there were no uired: mitted:	0.5 mg/L, meas required) (8) Percentage of readin Percentage of readin REPORTS & WC treatment technique NONE	sured as Total Chlor ogs with a low reside ogs with a low reside ORKSHEETS or monitoring/repo or Profile r Profile (9)	ual this month: ual last month: riting violations reported. Filter Assessment	0.0 % (6B)	
Total number of a Average disinfect Number of readin Number of readin The Page 1 Add Additional repo	readings this month: tant residual value: ngs with a low residual ngs with no detectable dendum (Public Notice ort(s) for individual fill ort(s) for individual fill	al: le residual: les) is not required lter monitoring required	ystem: 186 3.01 0 0 ADDITIONAL because there were no uired: mitted:	0.5 mg/L, meas required) (8) Percentage of readin Percentage of readin REPORTS & WC treatment technique	sured as Total Chlor ogs with a low reside ogs with a low reside ORKSHEETS or monitoring/repo or Profile r Profile (9)	ual this month: ual last month: rting violations reported. O Filter Assessment O Filter Assessment (10	0.0 % (6B) O CPE O) CPE (11)	
Total number of a Average disinfect Number of readir Number of readir The Page 1 Add Additional report Additional report No additional Settle	readings this month: tant residual value: ngs with a low residua ngs with no detectable dendum (Public Notice ort(s) for individual fill ort(s) for individual fill I IFE Reports are requied	al: le residual: less) is not required lter monitoring requirer monitoring sub- uired this month.	ystem: 186	0.5 mg/L, meas required) (8) Percentage of readin Percentage of readin REPORTS & WC treatment technique NONE	sured as Total Chlor ogs with a low reside ogs with a low reside ORKSHEETS or monitoring/repo or Profile r Profile (9)	ual this month: ual last month: rting violations reported. Filter Assessment Filter Assessment (10	0.0 % (6B) CPE CPE (11) 0.42 NTU	
Total number of a Average disinfect Number of readir Number of readir The Page 1 Add Additional report Additional report No additional Settle Sta	readings this month: tant residual value: ngs with a low residua ngs with no detectable dendum (Public Notice ort(s) for individual fill ort(s) for individual fill I IFE Reports are required.	al: le residual: les) is not required lter monitoring required ter monitoring sub- uired this month. Maximum turbidi Minimum turbidit	ystem: 186 3.01 0 0 ADDITIONAL because there were no uired: mitted: STATISTICAL Atty reading: ty reading:	0.5 mg/L, meas required) (8) Percentage of readin Percentage of readin REPORTS & WC treatment technique NONE	sured as Total Chlor ogs with a low reside ogs with a low reside ORKSHEETS or monitoring/repo or Profile r Profile (9)	ual this month: ual last month: rting violations reported. O Filter Assessment O Filter Assessment (10	0.0 % (6B) O CPE O) CPE (11)	
Total number of a Average disinfect Number of readir Number of readir The Page 1 Add Additional report Additional report No additional Settle Sta	readings this month: tant residual value: ngs with a low residua ngs with no detectable dendum (Public Notice ort(s) for individual fill ort(s) for individual fill I IFE Reports are requied	al: le residual: less) is not required leter monitoring requiter monitoring sub- uired this month. Maximum turbidit Minimum turbidit 95 th percentile va	ystem: 186 3.01 0 0 ADDITIONAL because there were no uired: mitted: STATISTICAL At ty reading: ty reading: ty reading: ty reading: ty reading:	0.5 mg/L, meas required) (8) Percentage of readin Percentage of readin REPORTS & WC treatment technique NONE O Filte NONE O Filte ANALYSIS OF TU 1.15 NTU 0.14 NTU 1.01 NTU	sured as Total Chlorings with a low residungs report of the residungs of the residual profile (9)	ual this month: ual last month: rting violations reported. Filter Assessment Filter Assessment (10) Average turbidity value: Standard deviation:	0.0 % (6B) CPE CPE (11) 0.42 NTU 0.280 NTU	
Total number of a Average disinfect Number of readir Number of readir The Page 1 Add Additional report Additional report No additional States	readings this month: tant residual value: ngs with a low residua ngs with no detectable dendum (Public Notice ort(s) for individual fill ort(s) for individual fill IFE Reports are required ed Water astical mmary IFE	al: le residual: les) is not required lter monitoring requiter monitoring sub- uired this month. Maximum turbidit Minimum turbidit 95 th percentile va	ystem: 186 3.01 0 0 ADDITIONAL because there were no uired: mitted: STATISTICAL Aty reading: ty reading: ty reading: ty reading: thidity reading:	0.5 mg/L, meas required) (8) Percentage of readin Percentage of readin REPORTS & WC treatment technique NONE	sured as Total Chlorings with a low residungs report of the residungs of the residual profile (9)	ual this month: ual last month: rting violations reported. Filter Assessment Filter Assessment (10 Average turbidity value: Standard deviation: Average IFE turbidity value:	0.0 % (6B) CPE CPE (11) 0.42 NTU 0.280 NTU	
Total number of a Average disinfect Number of readir Number of readir Number of readir The Page 1 Add Additional report Additional report No additional Settle States	readings this month: tant residual value: ngs with a low residua ngs with no detectable dendum (Public Notice ort(s) for individual fill ort(s) for individual fill I IFE Reports are required ed Water astical mmary IFE astical	al: le residual: les) is not required lter monitoring required lter monitoring sub- lired this month. Maximum turbidit Minimum turbidit 95 th percentile va Maximum IFE tur Minimum IFE turb	ystem: 186 3.01 0 0 ADDITIONAL because there were no uired: mitted: STATISTICAL Aty reading: ty reading:	0.5 mg/L, meas required) (8) Percentage of readin Percentage of readin REPORTS & WC treatment technique NONE O Filte NONE O Filte ANALYSIS OF TU 1.15 NTU 0.14 NTU 1.01 NTU	sured as Total Chlorings with a low residungs report of the residungs of the residual profile (9)	ual this month: ual last month: rting violations reported. Filter Assessment Filter Assessment (10) Average turbidity value: Standard deviation:	0.0 % (6B) CPE CPE (11) 0.42 NTU 0.280 NTU	
Total number of a Average disinfect Number of readir Number of readir The Page 1 Add Additional report Additional report No additional Settle State Sun	readings this month: tant residual value: ngs with a low residua ngs with no detectable dendum (Public Notice ort(s) for individual fill ort(s) for individual fill IFE Reports are required ed Water astical mmary IFE astical mmary	al: le residual: less) is not required lter monitoring requiter monitoring sub- uired this month. Maximum turbidit Minimum turbidit 95 th percentile va Maximum IFE tur Minimum IFE turb	ystem: 186 3.01 0 0 ADDITIONAL because there were no uired: mitted: STATISTICAL A ty reading: ty reading: lue: bidity reading: bidity reading: E value:	0.5 mg/L, meas required) (8) Percentage of readin Percentage of readin REPORTS & WC treatment technique NONE	sured as Total Chlorings with a low residungs report of the residungs of the residual profile (9)	rting violations reported. Filter Assessment Filter Assessment (10 Average turbidity value: Standard deviation: Average IFE turbidity value: Standard deviation:	0.0 % (6B) CPE CPE (11) -0.42 NTU -0.280 NTU -0.064 NTU -0.064 NTU	
Total number of a Average disinfect Number of readir Number of readir Number of readir The Page 1 Add Additional report Additional report No additional States States States	readings this month: tant residual value: ngs with a low residua ngs with no detectable dendum (Public Notice ort(s) for individual fill ort(s) for individual fill I IFE Reports are required ed Water astical mmary IFE astical	al: le residual: les) is not required lter monitoring required lter monitoring sub- lired this month. Maximum turbidit Minimum turbidit 95 th percentile va Maximum IFE tur Minimum IFE turb	ystem: 186 3.01 0 0 ADDITIONAL because there were no uired: mitted: STATISTICAL Aty reading: ty reading: ty reading: ty reading: chidity reading: bidity reading: bidity reading: chidity reading: bidity reading: chidity reading: bidity reading: chidity reading: chidity reading: chidity reading: chidity reading:	0.5 mg/L, meas required) (8) Percentage of readin Percentage of readin REPORTS & WC treatment technique NONE	sured as Total Chlorings with a low residungs report of the residungs of the residual profile (9)	ual this month: ual last month: rting violations reported. Filter Assessment Filter Assessment (10 Average turbidity value: Standard deviation: Average IFE turbidity value:	0.0 % (6B) CPE CPE (11) -0.42 NTU -0.280 NTU -0.064 NTU -0.064 NTU	

SURFACE WATER MONTHLY OPERATING REPORT

Average pH value:

Standard deviation:

STATISTICAL ANALYSIS OF pH DATA

7.40 pH

7.12 pH

7.30 pH

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155) P.O. BOX 13087, AUSTIN, TEXAS 78711-3087 7.23 pH

0.063 pH

Maximum pH reading:

Minimum pH reading:

95th percentile value:

Last Zone pH

Stastical

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER Summary Page

PUBLIC WATER SYSTEM NAME:	GULF COAST WATER AUTHORIT	Y TX CITY	PLANT NAME OR NUMBER:	SWTP - THOMAS MACKE	EY WTP - BRAZOS
			I certify that Lam familiar with the	information contained in this report and that,	
PWS ID No.:	0840153	Bernete de Blemekere	to the best of my knowledge, the	information is true, complete and accurate.	
Plant ID No.: Report for	14813	Operator's Signature:	_ (www	1 Joseph Marie	
the Month of:	April 2020	Certificate No. & Grade	WO0041290, A	Date:	May 6, 2020
		TREATME	ENT PLANT PERFORMANCE		
Total number of	of turbidity readings:	180	Number of 4-hour periods when p	plant was off-line:	0
	dings above 0.10 NTU:	0	Number of 4-hour periods when p		
The state of the control of the state of the	dings above 0.3 NTU:	0	but turbidity data was not collected		0
	dings above 0.5 NTU: dings above 1.0 NTU:	0	Number of days when plant was on but individual filter turbidity data		0
	wable turbidity level:	0.3	Number of days with readings ab		0 (2)
	readings above this limit:	0.0 % (1)	Number of days with readings ab		0 (3)
4	s with a low CT		Average log inactivation for Giard		3.93
	an 4.0 consecutive hours:	0	Average log inactivation for virus		121.60
	s with a low CT 4.0 consecutive hours:	0 (4)	Number of days when profiling da Number of days when CT data wa		0
Minimum disin	rectant residual required leaving th		0.5 mg/L, measured as Tota	al Chlorine	
Number of day	s with a low residual		Minimum pH in the last disinfection	on zone:	7.15
	an 4.0 consecutive hours:	0	Number of days with pH below 7.		0.00
Number of day	s with a low residual	· · · · · · · · · · · · · · · · · · ·	Number of days when disinfectan		
R	4.0 consecutive hours:	0 (5)	leaving the plant was not properly		0
	The state of the s	DIS	STRIBUTION SYSTEM		
Minimum disinfe	ectant residual required in distributi	ion system:	0.5 mg/L, measured as Tota	al Chlorine	
	readings this month:	-	0 required) (8)		
_	tant residual value:	3.05	Percentage of readings with a low	v residual this month:	0.0 % (6A)
	ngs with a low residual:	0			0.018/ (60)
Number of reading	ngs with no detectable residual:	0	Percentage of readings with a low	v residual last month:	0.0 % (6B)
		ADDITIONA	L REPORTS & WORKSHEET	(S	
The Page 1 Ade	dendum (Public Notices) is not requ	uired because there were no	o treatment technique or monitorir	ng/reporting violations reported.	
Additional repo	ort(s) for individual filter monitoring	a required:	NONE Filter Profile	O Filter Assessment	○ CPE
	ort(s) for individual filter monitoring	-	NONE O Filter Profile (9)	O Filter Assessment (10)	
No additional	IFE Reports are required this mon	th.			
		STATISTICAL	ANALYSIS OF TURBIDITY D	ATA	
Settl	ed Water Maximum tu	irbidity reading:	0.99 NTU	Average turbidity value:	0.42 NTU
Committee of the Parket of the	astical Minimum tu	rbidity reading:	0.16 NTU	Standard deviation:	0.224 NTU
1784077 P. C.	CONTROL OF THE				
ou su	mmary 95 th percent		0.86 NTU		
arozurary Alice y	IFE Maximum IF		0.86 NTU 0.12 NTU 0.02 NTU	Average IFE turbidity value: Standard deviation:	0.05_ NTU 0.018_NTU

SURFACE WATER MONTHLY OPERATING REPORT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155) P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

Average CFE turbidity value:

Standard deviation:

Average pH value:

Standard deviation:

0.10 NTU

0.03 NTU

0.06 NTU

7.44 pH

7.15 pH

7.36 pH

STATISTICAL ANALYSIS OF pH DATA

0.04 NTU

0.010 NTU

7.23 pH

0.064 pH

CFE Stastical

Summary

Last Zone pH

Stastical

Summary

Maximum CFE turbidity reading:

Minimum CFE turbidity reading:

95th percentile CFE value:

Maximum pH reading:

Minimum pH reading:

95th percentile value:

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER Summary Page

PLANT NAME

PUBLIC WATER SYSTEM NAME:	GULF COAST WATE	R AUTHORITY TX CITY	,		OR NUMBER:	SWTP - THOMAS N	IACKEY WT	P - BRAZOS	
OTOTEM WANTE				I certify that	m familiar with the informa	tion contained in this report a	nd that,		
PWS ID No.:	0840153			to the best of	my knowledge, the informat	on is pue complete, and acc			
Plant ID No.:	14813	Opera	tor's Signature:		mino C.	V Jan			
Report for the Month of:	May 2020	Certifi	icate No. & Grade:	WO004125	0, A	Date:	June 4	4, 2020	
4.44			TREATME	NT PLANT PE	RFORMANCE				
Total number of	of turbidity readings:	1			ır periods when plant w			0	
	dings above 0.10 NTU:	***			ir periods when plant w	as on-line		0	
	dings above 0.3 NTU: dings above 0.5 NTU:				a was not collected: when plant was on-line				1
	dings above 1.0 NTU:	***************************************			ter turbidity data was no			0	1
	wable turbidity level:				with readings above 1.0			0 (2)	
	readings above this lin			Number of days	with readings above 5.0	NTU:		0 (3)	
				Average log ina	ctivation for Glardia:			4.58	
	s with a low CT an 4.0 consecutive hou	IFS:			ctivation for viruses:			145.33	
	s with a low CT				when profiling data was			0	
for more than	4.0 consecutive hours:		0 (4)	Number of days	when CT data was not	collected:		0	
Minimum disir	fectant residual requir	ed leaving the plant:		0.5 mg/L,	measured as Total Chlo	rine			
	s with a low residual			Minimum pH in	the last disinfection zon	e:		7.15	
for no more th	an 4.0 consecutive hou	irs:	0	Number of days	with pH below 7.0 in the	e last disinfection zone:		0.00	
	s with a low residual				when disinfectant resid			0	
for more than	4.0 consecutive hours:		0 (5)	leaving the plan	t was not properly moni	torea:			William Company
			DIS	TRIBUTION S	YSTEM		1000		
Minimum disinfo	ectant residual required	d in distribution system	n:	0.5 mg/L,	measured as Total Chlo	rine			
	readings this month:		186 (at least 120	required) (8)				0.01 01 10.43	
	ctant residual value:			Percentage of re	eadings with a low resid	lual this month:		0.0 % (6A)	
2	ngs with a low residua		0	Percentage of r	eadings with a low resid	lual last month:		0.0 % (6B)	1
Number of read	ngs with no detectable	residuai:	<u> </u>	retcentage of t	seamy with a low resid	da last monas			
			ADDITIONAL	REPORTS 8	WORKSHEETS				
The Page 1 Ad	dendum (Public Notice	s) is not required beca	ause there were no	treatment tech	ique or monitoring/repo	orting violations reported	d.		
Additional rep	ort(s) for individual filt	er monitoring required	l:	NONE (Filter Profile	O Filter Assessmen	nt	○ CPE	
Additional rep	ort(s) for individual filt	er monitoring submitte	ed:	NONE O	Filter Profile (9)	O Filter Assessmen	at (10)	O CPE (11)	1
No additions	II IFE Reports are requi	ired this month.							
				THE RESIDENCE AND				Entropy and the property of the control of the cont	ALCOHOLOGICA MERCANOS
							in mirani, dan bes		
1000		reservation to the	STATISTICAL	ANALYSIS OI	TURBIDITY DATA				
Sett	led Water	Maximum turbidity re	ading:	1.21 NTU		Average turbidity value	<i>i</i> :	0.45 NTU	
	tastical	Minimum turbidity rea	ading:	0.11 NTU 0.87 NTU		Standard deviation:		0.239 NTU	
Si	ımmary E	95 th percentile value:							
	IFE TO THE	Maximum IFE turbidit		0.15 NTU 0.03 NTU		Average IFE turbidity v Standard deviation:	alue:	0.06 NTU 0.021 NTU	
CONTRACTOR DATE	tastical ummary	Minimum IFEturbidity 95 th percentile IFE val		0.10 NTU		Standard deviation:		0.021 N10	
		Maximum CFE turbid		0.08 NTU		Average CFE turbidity	value.	0.05 NTU	
S S	CFE tastical	Minimum CFE turbidi		0.04 NTU		Standard deviation:	raide.	0.008 NTU	
The Part of the Pa	ummary	95 th percentile CFE va		0.06 NTU					
			STATISTIC	AL ANALYSI	S OF pH DATA				

SURFACE WATER MONTHLY OPERATING REPORT

7.36 pH

7.15 pH

7.35 pH

PAGE 1

Maximum pH reading:

Minimum pH reading:

95th percentile value:

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

Average pH value:

Standard deviation:

7.26 pH

0.062 pH

Last Zone pH

Stastical

Summary

PUBLIC WATER

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER Summary Page

PLANT NAME

SYSTEM NAME:	GULF COAST WAT	TER AUTHORITY TX CITY	OR NUMBER:	SWTP - THOMAS MACKET	Y WTP - BRAZOS
				rmation contained in this report and that,	
PWS ID No.: Plant ID No.:	0840153	Operator's Signature		mation is true, complete, and accurate.	
Report for	14813	Operator's Signature	- Comment	1. co	
the Month of:	June 2020	Certificate No. & Gra	de: WO0041290, A	Date: J	uly 8, 2020
		TREATI	MENT PLANT PERFORMANCE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Total number of	of turbidity readings:		Number of 4-hour periods when plant	t was off-line:	0
	dings above 0.10 NT	Control of the Contro	Number of 4-hour periods when plant	t was on-line	
	dings above 0.3 NTU		but turbidity data was not collected:		0
	dings above 0.5 NTU		Number of days when plant was on-li		0
	dings above 1.0 NTU	***************************************	but individual filter turbidity data was		0 (2)
1	wable turbidity level:		Number of days with readings above		
Percentage of	readings above this	limit: 0.0 % (1)	Number of days with readings above	5.0 NTU:	0 (3)
	s with a low CT		Average log inactivation for Giardia:		5.62
for no more tha	an 4.0 consecutive h	ours: 0	Average log inactivation for viruses:		181.16
	s with a low CT		Number of days when profiling data v		0
	4.0 consecutive hour		Number of days when CT data was no	ot collected:	0
Minimum disin	fectant residual requ	uired leaving the plant:	0.5 mg/L, measured as Total Ch	nlorine	
	s with a low residua		Minimum pH in the last disinfection z	one:	7.09
for no more tha	an 4.0 consecutive h	ours: 0	Number of days with pH below 7.0 in	the last disinfection zone:	0.00
	s with a low residua		Number of days when disinfectant res	sidual	
for more than	4.0 consecutive hour	rs: 0 (5)	leaving the plant was not properly mo	onitored:	0
		Charles Services	STRIBUTION SYSTEM	The second second second	。
Minimum disinfe	ctant residual requir	red in distribution system;	0.5 mg/L, measured as Total Ch	nlorine	
	ctant residual requir	red in distribution system;		alorine	
Total number of		red in distribution system;	0.5 mg/L, measured as Total Ch		0.0 % (6A)
Total number of Average disinfec	readings this month	red in distribution system: : 180 (at least 1	0.5 mg/L, measured as Total Ch (8)		
Total number of Average disinfec Number of readi	readings this month tant residual value:	red in distribution system: : 180 (at least 1	0.5 mg/L, measured as Total Ch (8)	sidual this month:	0.0 % (6A) 0.0 % (6B)
Total number of Average disinfec Number of readi	readings this month tant residual value: ngs with a low resid	red in distribution system: : 180 (at least 1	0.5 mg/L, measured as Total Ch 120 required) (8) Percentage of readings with a low res	sidual this month:	
Total number of Average disinfed Number of readi Number of readi	readings this month stant residual value: ngs with a low resid ngs with no detectal	red in distribution system: :	0.5 mg/L, measured as Total Ch (20 required) (8) Percentage of readings with a low res Percentage of readings with a low res	sidual this month:	
Total number of Average disinfec Number of readi Number of readi The Page 1 Ade	readings this month tant residual value: ngs with a low residi ngs with no detectat dendum (Public Noti	red in distribution system: : 180 (at least 1	0.5 mg/L, measured as Total Ch 120 required) (8) Percentage of readings with a low res Percentage of readings with a low res AL REPORTS & WORKSHEETS no treatment technique or monitoring/re	sidual this month: sldual last month: eporting violations reported.	0.0 % (6B)
Total number of Average disinfect Number of readin Number of readin The Page 1 Add Additional repo	readings this month stant residual value: ngs with a low residings with no detectal dendum (Public Noti ort(s) for individual f	red in distribution system: :	0.5 mg/L, measured as Total Ch 120 required) (8) Percentage of readings with a low res Percentage of readings with a low res AL REPORTS & WORKSHEETS no treatment technique or monitoring/re NONE O Filter Profile	sidual this month: sidual last month: eporting violations reported. Filter Assessment	0.0 % (6B)
Total number of Average disinfect Number of readin Number of readin The Page 1 Add Additional repo Additional repo	readings this month stant residual value: ngs with a low residings with no detectal dendum (Public Noti ort(s) for individual fort(s) for individual f	red in distribution system: :	0.5 mg/L, measured as Total Ch 120 required) (8) Percentage of readings with a low res Percentage of readings with a low res AL REPORTS & WORKSHEETS no treatment technique or monitoring/re	sidual this month: sldual last month: eporting violations reported.	0.0 % (6B)
Total number of Average disinfect Number of readin Number of readin The Page 1 Add Additional repo Additional repo	readings this month stant residual value: ngs with a low residings with no detectal dendum (Public Noti ort(s) for individual f	red in distribution system: :	0.5 mg/L, measured as Total Ch 120 required) (8) Percentage of readings with a low res Percentage of readings with a low res AL REPORTS & WORKSHEETS no treatment technique or monitoring/re NONE O Filter Profile	sidual this month: sidual last month: eporting violations reported. Filter Assessment	0.0 % (6B)
Total number of Average disinfect Number of readin Number of readin The Page 1 Add Additional repo Additional repo	readings this month stant residual value: ngs with a low residings with no detectal dendum (Public Notion(s) for individual fort(s) for individual fort(s) for individual f	red in distribution system: :	0.5 mg/L, measured as Total Ch 120 required) (8) Percentage of readings with a low res Percentage of readings with a low res AL REPORTS & WORKSHEETS no treatment technique or monitoring/re NONE O Filter Profile	sidual this month: sidual last month: eporting violations reported. Filter Assessment	0.0 % (6B)
Total number of Average disinfect Number of readin Number of readin The Page 1 Add Additional repo Additional repo	readings this month stant residual value: ngs with a low residings with no detectal dendum (Public Notion(s) for individual fort(s) for individual fort(s) for individual f	red in distribution system: : 180 (at least 1	0.5 mg/L, measured as Total Ch 120 required) (8) Percentage of readings with a low res Percentage of readings with a low res AL REPORTS & WORKSHEETS no treatment technique or monitoring/re NONE Filter Profile NONE Filter Profile (9)	eporting violations reported. Filter Assessment (10)	0.0 % (6B)
Total number of Average disinfect Number of readin Number of readin The Page 1 Add Additional repo Additional repo	readings this month stant residual value: ngs with a low residings with no detectal dendum (Public Notion(s) for individual fort(s) for individual fort(s) for individual f	red in distribution system: : 180 (at least 1	0.5 mg/L, measured as Total Ch 120 required) (8) Percentage of readings with a low res Percentage of readings with a low res AL REPORTS & WORKSHEETS no treatment technique or monitoring/re NONE O Filter Profile	eporting violations reported. Filter Assessment (10)	0.0 % (6B)
Total number of Average disinfec Number of readi Number of readi The Page 1 Add Additional repo Additional	readings this month stant residual value: ngs with a low residings with no detectal dendum (Public Notion(s) for individual fort(s) for individual fort(s) for individual f	red in distribution system: :	0.5 mg/L, measured as Total Ch 120 required) (8) Percentage of readings with a low res Percentage of readings with a low res AL REPORTS & WORKSHEETS no treatment technique or monitoring/re NONE	eporting violations reported. Filter Assessment Filter Assessment (10)	0.0 % (6B) CPE CPE (11)
Total number of Average disinfect Number of readin Number of readin The Page 1 Add Additional report Additional report No additional Settle St.	readings this month stant residual value: ngs with a low residual ngs with no detectal dendum (Public Noti ort(s) for individual fort(s) for individual fi I IFE Reports are requested.	red in distribution system: :	0.5 mg/L, measured as Total Ch 20 required) (8) Percentage of readings with a low res Percentage of readings with a low res AL REPORTS & WORKSHEETS no treatment technique or monitoring/re NONE Filter Profile NONE Filter Profile (9) L ANALYSIS OF TURBIDITY DATA 1.67 NTU 0.14 NTU	sidual this month: sldual last month: porting violations reported. Filter Assessment Filter Assessment (10)	0.0 % (6B) CPE CPE (11)
Total number of Average disinfect Number of readin Number of readin The Page 1 Add Additional report Additional report No additional Settle St.	readings this month tant residual value: ngs with a low residings with no detectab dendum (Public Notion(s) for individual fort(s) for individual fort(s) for EREPORTS are required.	red in distribution system: :	0.5 mg/L, measured as Total Ch 120 required) (8) Percentage of readings with a low res Percentage of readings with a low res AL REPORTS & WORKSHEETS no treatment technique or monitoring/re NONE	eporting violations reported. Filter Assessment Filter Assessment (10)	0.0 % (6B) CPE CPE (11)
Total number of Average disinfect Number of readin	readings this month stant residual value: ngs with a low residual ngs with no detectal dendum (Public Noti ort(s) for individual fort(s) for individual fi I IFE Reports are requested.	red in distribution system: :	0.5 mg/L, measured as Total Ch 20 required) (8) Percentage of readings with a low res Percentage of readings with a low res AL REPORTS & WORKSHEETS no treatment technique or monitoring/re NONE Filter Profile NONE Filter Profile (9) L ANALYSIS OF TURBIDITY DATA 1.67 NTU 0.14 NTU	eporting violations reported. Filter Assessment Filter Assessment (10)	0.0 % (6B) CPE CPE (11)
Total number of Average disinfect Number of readin Number of Reading Number of Readin Number of Reading Number of Readin Number of Reading Number	readings this month stant residual value: ngs with a low residual ngs with no detectal dendum (Public Noti ort(s) for individual fort(s) for individual fi I IFE Reports are requested ed Water astical mmary IFE astical	red in distribution system: :	0.5 mg/L, measured as Total Ch 120 required) (8) Percentage of readings with a low res Percentage of readings with a low res AL REPORTS & WORKSHEETS	sidual this month: sldual last month: porting violations reported. Filter Assessment Filter Assessment (10) Average turbidity value: Standard deviation:	0.0 % (6B) CPE CPE (11) 0.60 NTU 0.383 NTU
Total number of Average disinfect Number of readin	readings this month stant residual value: ngs with a low residual ngs with no detectal dendum (Public Noti prt(s) for individual fort(s) for individual fi I IFE Reports are requested Water astical mmary IFE	red in distribution system: :	0.5 mg/L, measured as Total Ch 120 required) (8) Percentage of readings with a low res Percentage of readings with a low res AL REPORTS & WORKSHEETS no treatment technique or monitoring/re NONE Filter Profile NONE Filter Profile (9) L ANALYSIS OF TURBIDITY DATA 1.67 NTU 0.14 NTU 0.14 NTU	eporting violations reported. Filter Assessment Filter Assessment (10) Average turbidity value: Standard deviation:	0.0 % (6B) CPE CPE (11) 0.60 NTU 0.383 NTU

SURFACE WATER MONTHLY OPERATING REPORT

Standard deviation:

Average pH value:

Standard deviation:

0.03 NTU

0.05 NTU

7.30 pH

7.09 pH

7.29 pH

STATISTICAL ANALYSIS OF pH DATA

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

0.006 NTU

7.21 pH

0.055 pH

Minimum CFE turbidity reading:

95th percentile CFE value:

Maximum pH reading:

Minimum pH reading:

95th percentile value:

Stastical

Summary

Last Zone pH

Stastical

Summary

PUBLIC WATER

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER Summary Page

PLANT NAME

PUBLIC WATER			PLANT NAME	SWTP - THOMAS MACKE	Y WTP - BRAZOS
SYSTEM NAME:	GULF COAST WATER AUTHORITY	TX CITY	OR NUMBER:	ormation contained in this report and that,	
			to the best of my knowledge, the info	emetion is true complete, and accurate.	
PWS ID No.:	0840153	Out and a la Cianatura	11-tales	AUTara	
Plant ID No.:	14813	Operator's Signature:	mun X	To face	
Report for		Certificate No. & Grade	: WO0041290, A	Date:	August 5, 2020
the Month of:	July 2020				
	CHARLEST AND	TREATM	ENT PLANT PERFORMANCE		
Total number o	of turbidity readings:	186	Number of 4-hour periods when pla	nt was off-line:	0
A .	dings above 0.10 NTU:	0	Number of 4-hour periods when pla	nt was on-line	
	dings above 0.3 NTU:	0	but turbidity data was not collected		0
Number of read	dings above 0.5 NTU:	0	Number of days when plant was on		0
Number of read	dings above 1.0 NTU:	0	but individual filter turbidity data wa		
Maximum allov	vable turbidity level:	0.3	Number of days with readings above	e 1.0 NTU:	0 (2)
Percentage of	readings above this limit:	0.0 % (1)	Number of days with readings above	e 5.0 NTU:	0 (3)
Al	a with a law CT		Average log inactivation for Giardia	:	5.46
Number of day	an 4.0 consecutive hours:	0	Average log inactivation for viruses		174.62
			Number of days when profiling data		0
	s with a low CT 4.0 consecutive hours:	0 (4)	Number of days when CT data was	not collected:	0
			0.5 mg/L, measured as Total (Chlorine	
	fectant residual required leaving the	ріані.			7.11
	s with a low residual		Minimum pH in the last disinfection		
for no more the	an 4.0 consecutive hours:	0	Number of days with pH below 7.0 i	n the last disinfection zone:	0.00
Number of day	rs with a low residual	1	Number of days when disinfectant		
	4.0 consecutive hours:	0 (5)	leaving the plant was not properly i	monitored:	0
	SANCTON OF SOME WAS A STREET OF THE STREET	DI	STRIBUTION SYSTEM		
Minimum disinfe	ectant residual required In distribution		0.5 mg/L, measured as Total	Chlorine	
Total number of	readings this month:	-	20 required) (8)		0.0 % (6A)
Average disinfed	ctant residual value:	3.07	Percentage of readings with a low i	esidual this month:	0.0 % (6A)
Number of read	ngs with a low residual:	0			0.0 % (6B)
Number of readi	ngs with no detectable residual:	0	Percentage of readings with a low i	esidual last month:	0.0 % (68)
		ADDITIONA	AL REPORTS & WORKSHEETS		11 11 11 11 11 11 11 11 11 11 11 11 11
			no treatment technique or monitoring		O 005
Additional rep	ort(s) for individual filter monitoring	oquirou.	NONE O Filter Profile	O Filter Assessment	O CPE
Additional rep	ort(s) for individual filter monitoring	submitted:	NONE O Filter Profile (9)	O Filter Assessment (10) CPE (11)
No additiona	I IFE Reports are required this month	١.			
		STATISTICAL	ANALYSIS OF TURBIDITY DA	TA	
₽FT : uar		The statement of the st	0.77 NTU	Average turbidity value:	0.31 NTU
E		bidity reading: pidity reading:	0.09 NTU	Standard deviation:	0.154 NTU
300 mm - 1 300 mm	ummary 95 th percentile		0.57 NTU		
3. 2.	o porcentati				

	STATISTICAL	L ANALYSIS OF TURBIDITY DATA		
Settled Water Stastical Summary	Maximum turbidity reading: Minimum turbidity reading: 95 th percentile value:	0.77 NTU 0.09 NTU 0.57 NTU	Average turbidity value: Standard deviation:	0.31 NTU 0.154 NTU
IFE Stastical Summary	MaxImum IFE turbidity reading: Minimum IFEturbidity reading: 95 th percentile IFE value:	0.15 NTU 0.03 NTU 0.07 NTU	Average IFE turbidity value: Standard deviation:	0.05 NTU 0.014 NTU
CFE Stastical Summary	Maximum CFE turbidity reading: Minimum CFE turbidity reading: 95 th percentile CFE value:	0.06 NTU 0.03 NTU 0.05 NTU	Average CFE turbidity value: Standard deviation:	0.05 NTU 0.005 NTU
The second second	STATIST	TICAL ANALYSIS OF pH DATA		
Last Zone pH Stastical Summary	Maximum pH reading: Minimum pH reading: 95 th percentile value:	7.33 pH 7.11 pH 7.31 pH	Average pH value: Standard deviation:	7.23 pH 0.050 pH

SURFACE WATER MONTHLY OPERATING REPORT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER Summary Page

PLANT NAME

PUBLIC WATER	GULF COAST WAT	TER AUTHORITY T	X CITY		PLANT NAME OR NUMBER:	SWTP - THOMAS MACK	EY WTP - BRAZOS
SISIEM WANE.	OUL! CONOT WA	LITAGIA	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	I certify tha	H am familiar with the info	rmation contained in this report and that	
PWS ID No.:	0840153		0 10 0	to the best	of my knowledge, the infibr	mation is true, complete, and accurate.	
Plant ID No.: Report for	14813		Operator's Signature:		mme	- Jan	
the Month of:	August 2020		Certificate No. & Grade:	WO00412	90, A	Date:	September 3, 2020
			TREATME	NT PLANT P	ERFORMANCE		
Total number of	of turbidity readings:		186		our periods when plan		0
	dings above 0.10 NT		0		our periods when plan ita was not collected:	nt was on-line	0
B	dings above 0.3 NTU dings above 0.5 NTU				s when plant was on-l	line	
	dings above 1.0 NTU		0	but individual f	ilter turbidity data wa	s not collected:	0
Maximum allo	wable turbidity level:				s with readings above		0 (2)
Percentage of	readings above this	limit:	0.0 % (1)	Number of day	s with readings above	5.0 NTU:	0 (3)
	ys with a low CT				activation for Giardia:		5.27 174.72
	an 4.0 consecutive h	ours:	0		activation for viruses: s when profiling data		0
	ys with a low CT 4.0 consecutive hou	rs:	0 (4)		s when CT data was n		0
Minimum disir	nfectant residual requ	uired leaving the p	lant:	0.5 mg/L,	measured as Total C	hlorine	
	ys with a low residua			Minimum pH in	the last disinfection :	zone:	7.20
for no more th	an 4.0 consecutive h	iours:	0	Number of day	s with pH below 7.0 in	the last disinfection zone:	0.00
	ys with a low residua		A (5)		s when disinfectant re		n
I for more than	4.0 consecutive hour	rs:	0 (5)	teaving the pia	nt was not properly m	ontorea.	
						A STATE OF THE STA	
			DIS	TRIBUTION			
Minimum disinfe	ectant residual requi		system:	0.5 mg/L,	measured as Total C	hlorine	
Minimum disinfo	readings this month		system: 186 (at least 120	0.5 mg/L, required) (8)	measured as Total C		0.0 % (6A)
Minimum disinfo Total number of Average disinfo	readings this month ctant residual value:	n:	system:	0.5 mg/L, required) (8)	measured as Total C		
Minimum disinfe Total number of Average disinfe Number of readi	readings this month	ual:	system: 186 (at least 120 3.09	0.5 mg/L, required) (8) Percentage of	measured as Total C	esidual this month:	0.0 % (6A)
Minimum disinfe Total number of Average disinfe Number of readi	f readings this month ctant residual value: ings with a low resid	ual:	system: 186 (at least 120 3.09 0 0	0.5 mg/L, required) (8) Percentage of Percentage of	measured as Total C	esidual this month:	
Minimum disinfo Total number of Average disinfo Number of readi Number of readi	f readings this month ctant residual value: ings with a low resid ings with no detectal	ual: ble residual:	system:	0.5 mg/L, required) (8) Percentage of Percentage of	measured as Total C readings with a low re readings with a low re & WORKSHEETS	esidual this month:	
Minimum disinfo Total number of Average disinfo Number of readi Number of readi The Page 1 Ad	f readings this month ctant residual value: ings with a low resid ings with no detectal dendum (Public Not	ual: ble residual: 	system:	0.5 mg/L, required) (8) Percentage of Percentage of L REPORTS treatment tech	measured as Total C readings with a low re readings with a low re & WORKSHEETS inique or monitoring/r	esidual this month: esidual last month: reporting violations reported.	0.0 % (6B)
Minimum disinfe Total number of Average disinfed Number of readi Number of readi The Page 1 Ad Additional rep	f readings this month ctant residual value: ings with a low resid ings with no detectal ddendum (Public Not cort(s) for Individual f	ual: ble residual: ces) is not require	system: 186 3.09 0 ADDITIONA ed because there were no	0.5 mg/L, required) (8) Percentage of Percentage of Legentage of treatment technone	measured as Total C readings with a low re readings with a low re & WORKSHEETS inique or monitoring/r Filter Profile	esidual this month:	0.0 % (6B)
Minimum disinfe Total number of Average disinfed Number of readi Number of readi The Page 1 Ad Additional rep Additional rep	f readings this month ctant residual value: ings with a low resid ings with no detectal dendum (Public Not	iual: ble residual: ices) is not require filter monitoring re	system: 186 3.09 0 ADDITIONA ed because there were no	0.5 mg/L, required) (8) Percentage of Percentage of L REPORTS treatment tech	measured as Total C readings with a low re readings with a low re & WORKSHEETS inique or monitoring/r	reporting violations reported. Filter Assessment	0.0 % (6B)
Minimum disinfe Total number of Average disinfed Number of readi Number of readi The Page 1 Ad Additional rep Additional rep	f readings this month ctant residual value: ings with a low resid ings with no detectal deendum (Public Not cort(s) for Individual f cort(s) for Individual f	iual: ble residual: ices) is not require filter monitoring re	system: 186 3.09 0 ADDITIONA ed because there were no	0.5 mg/L, required) (8) Percentage of Percentage of Legentage of treatment technone	measured as Total C readings with a low re readings with a low re & WORKSHEETS inique or monitoring/r Filter Profile	reporting violations reported. Filter Assessment	0.0 % (6B)
Minimum disinfe Total number of Average disinfed Number of readi Number of readi The Page 1 Ad Additional rep Additional rep	f readings this month ctant residual value: ings with a low resid ings with no detectal deendum (Public Not cort(s) for Individual f cort(s) for Individual f	iual: ble residual: ices) is not require filter monitoring re	system: 186 3.09 0 ADDITIONA ed because there were no	0.5 mg/L, required) (8) Percentage of Percentage of Legentage of treatment technone	measured as Total C readings with a low re readings with a low re & WORKSHEETS inique or monitoring/r Filter Profile	reporting violations reported. Filter Assessment	0.0 % (6B)
Minimum disinfe Total number of Average disinfed Number of readi Number of readi The Page 1 Ad Additional rep Additional rep	f readings this month ctant residual value: ings with a low resid ings with no detectal deendum (Public Not cort(s) for Individual f cort(s) for Individual f	iual: ble residual: ices) is not require filter monitoring re	system: 186 3.09 0 0 ADDITIONAl ed because there were not equired: abmitted:	0.5 mg/L, required) (8) Percentage of L REPORTS treatment technone (NONE	measured as Total C readings with a low re readings with a low re & WORKSHEETS inique or monitoring/r Filter Profile	esidual this month: esidual last month: reporting violations reported.	0.0 % (6B)
Minimum disinfo Total number of Average disinfor Number of readi Number of readi The Page 1 Ad Additional rep Additional rep	f readings this month ctant residual value: ings with a low resid ings with no detectal deendum (Public Not cort(s) for Individual f cort(s) for Individual f	iual: ble residual: ices) is not require filter monitoring re filter monitoring su quired this month. Maximum turbi	system: 186 (at least 120 3.09 0 0 ADDITIONAl ed because there were no equired: abmitted: STATISTICAL edity reading:	0.5 mg/L, required) (8) Percentage of L REPORTS OF LOOKE ON NONE OO LOOKE O	measured as Total C readings with a low re readings with a low re & WORKSHEETS unique or monitoring/r Filter Profile Filter Profile (9)	esidual this month: esidual last month: reporting violations reported. Filter Assessment Filter Assessment (10	0.0 % (6B) O CPE O CPE (11)
Minimum disinfe Total number of Average disInfe Number of readi Number of readi The Page 1 Ad Additional rep Additional rep No additional Sett	f readings this month ctant residual value: ings with a low resid ings with no detectated dendum (Public Not port(s) for individual fact (s) for individual fall IFE Reports are reconstituted Water stastical	niual: ble residual: ices) is not require filter monitoring re filter monitoring su quired this month. Maximum turbi Minimum turbi	system: 186 3.09 0 0 ADDITIONAl ed because there were no equired: abmitted: STATISTICAL dity reading: dity reading:	0.5 mg/L, required) (8) Percentage of L REPORTS treatment tech NONE ONNE ONNE ONNE ONNE ONNE ONNE ONN	measured as Total C readings with a low re readings with a low re & WORKSHEETS unique or monitoring/r Filter Profile Filter Profile (9)	esidual this month: esidual last month: eporting violations reported. Filter Assessment Filter Assessment (10	O.0 % (6B) CPE CPE (11)
Minimum disinfe Total number of Average disinfer Number of readi Number of readi The Page 1 Ad Additional rep Additional rep No additional Sett	f readings this month ctant residual value: ings with a low residings with no detectal defendum (Public Noticort(s) for individual foort(s) for individual fall IFE Reports are recitatical ummary	ices) is not require filter monitoring re filter monitoring si quired this month. Maximum turbi Minimum turbi 95 th percentile	system: 186 (at least 120 3.09 0 0 ADDITIONAl ad because there were not equired: ubmitted: STATISTICAL dity reading: dity reading: value:	O.5 mg/L, required) (8) Percentage of L REPORTS of treatment tech NONE ONNE ONNE ONNE ONNE ONNE ONNE ONN	measured as Total C readings with a low re readings with a low re & WORKSHEETS unique or monitoring/r Filter Profile Filter Profile (9)	reporting violations reported. Filter Assessment Filter Assessment (10	0.0 % (6B) O CPE O CPE (11) O.30 NTU O.138 NTU
Minimum disinfer Total number of Average disInfer Number of readin Number of reading Number of Readin Number of Readin Number of Readin Number of Reading Number of R	readings this month ctant residual value: ings with a low residings with no detectated dendum (Public Noticert(s) for individual foort(s) for individual fall IFE Reports are recutted Water stastical ummary	iual: ble residual: ices) is not require filter monitoring se full this month. Maximum turbi Minimum turbi 95 th percentile Maximum IFE t	system: 186 (at least 120 3.09 0 0 ADDITIONAl ed because there were not equired: submitted: STATISTICAL idity reading: dity reading: value: curbidity reading:	O.5 mg/L, required) (8) Percentage of Dercentage of Dercen	measured as Total C readings with a low re readings with a low re & WORKSHEETS unique or monitoring/r Filter Profile Filter Profile (9)	esidual this month: esidual last month: reporting violations reported. Filter Assessment Filter Assessment (10	0.0 % (6B) O CPE O CPE (11)
Minimum disinfer Total number of Average disinfer Number of reading Number of Readin	f readings this month ctant residual value: ings with a low residings with no detectal defendum (Public Noticort(s) for individual foort(s) for individual fall IFE Reports are recitatical ummary	iual: ble residual: ices) is not require filter monitoring se full this month. Maximum turbi Minimum turbi 95 th percentile Maximum IFE t	system: 186 (at least 120 3.09 0 0 ADDITIONAl ed because there were no equired: abmitted: STATISTICAL dity reading: dity reading: value: urbidity reading: urbidity reading: urbidity reading:	O.5 mg/L, required) (8) Percentage of L REPORTS of treatment tech NONE ONNE ONNE ONNE ONNE ONNE ONNE ONN	measured as Total C readings with a low re readings with a low re & WORKSHEETS unique or monitoring/r Filter Profile Filter Profile (9)	reporting violations reported. Filter Assessment Filter Assessment (10) Average turbidity value: Standard deviation: Average IFE turbidity value:	0.0 % (6B) O CPE O CPE (11) O.30 NTU O.138 NTU
Minimum disinfer Total number of Average disinfer Number of reading Number of Readin	f readings this month ctant residual value: ings with a low residings with no detectated dendum (Public Noticort(s) for individual fact (s) for individual fall FE Reports are recorded Water stastical ummary	iual: ble residual: ices) is not require filter monitoring re filter monitoring si quired this month. Maximum turbi Minimum turbi 95 th percentile Maximum IFE to 95 th percentile	system: 186 (at least 120 3.09 0 0 ADDITIONAl ed because there were no equired: abmitted: STATISTICAL dity reading: dity reading: value: urbidity reading: urbidity reading: urbidity reading:	O.5 mg/L, required) (8) Percentage of Percentage of Percentage of NONE ONONE ONON	measured as Total C readings with a low re readings with a low re & WORKSHEETS unique or monitoring/r Filter Profile Filter Profile (9)	reporting violations reported. Filter Assessment Filter Assessment (10) Average turbidity value: Standard deviation: Average IFE turbidity value:	0.0 % (6B) CPE CPE (11) 0.30 NTU 0.138 NTU 0.05 NTU 0.016 NTU

SURFACE WATER MONTHLY OPERATING REPORT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155) P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

0.06 NTU

7.40 pH

7.20 pH

7.30 pH

STATISTICAL ANALYSIS OF pH DATA

Average pH value:

Standard deviation:

7.28 pH

0.048 pH

Minimum CFE turbidity reading:

95th percentile CFE value:

Maximum pH reading:

Minimum pH reading:

95th percentile value:

Stastical

Summary

Last Zone pH

Stastical

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER Summary Page

PUBLIC WATE		AST WATER AUTHORITY T	X CITY	PLANT NAME OR NUMBER:	SWTP - THOMAS MACKE	Y WTP - BRAZOS
				I certify that I am familiar with the inf	formation contained in this report and that,	
PW\$ ID No.:	0840153		Operator's Signature:	to the best of my knowledge, the info	formation is true complete, and accurate.	
Plant ID No.: Report for	14813		Operator 8 orginature.	Donarana	1 Cum	
the Month of:	September	2020	Certificate No. & Grade:	WO0041290, A	Date: 0	October 2, 2020
				NT PLANT PERFORMANCE		<u>.</u>
	er of turbidity re			Number of 4-hour periods when pla		0
	readings above t readings above t			Number of 4-hour periods when pla but turbidity data was not collected		0
	readings above (readings above (Number of days when plant was on		
	readings above		0	but individual filter turbidity data wa	ras not collected:	0
Maximum al	llowable turbidii	ty level:		Number of days with readings abov		0 (2)
Percentage	of readings abo	ove this limit:	0.0 % (1)	Number of days with readings abov	/e 5.0 NTU:	0 (3)
	days with a low			Average log inactivation for Giardia Average log inactivation for viruses		<u>5.37</u> 177.59
ii .	than 4.0 consec			Average log inactivation for viruses Number of days when profiling date		0
M	days with a low an 4.0 consecuti			Number of days when CT data was		
Minimum di	sinfectant resid	dual required leaving the pl	lant:	0.5 mg/L, measured as Total (Chlorine	
	days with a low			Minimum pH in the last disinfection	ı zone:	7.12
for no more	than 4.0 consec	cutive hours:	0	Number of days with pH below 7.0 i	in the last disInfection zone:	0.00
	days with a low an 4.0 consecuti			Number of days when disinfectant is leaving the plant was not properly in		0
" • • • • more tha	40 9.0 0000000	AVE HOUTO.	- (~)	Idania die Limit		
for more tha						
			The state of the s	TRIBUTION SYSTEM		
Minimum disi	infectant residua	al required in distribution	system:	0.5 mg/L, measured as Total (Chlorine	
Minimum disi Total number	infectant residua of readings this	s month:	system: 186 (at least 120	0.5 mg/L, measured as Total (required) (8)		0.0 % (6A)
Minimum disi Total number Average disin	infectant residua of readings this rectant residual	s month: d value:	system:186	0.5 mg/L, measured as Total (0.0 % (6A)
Minimum disi Total number Average disin Number of re:	infectant residua of readings this lfectant residual adings with a lo	s month: d value:	system: 186 (at least 120 3.13 0	0.5 mg/L, measured as Total (required) (8)	residual this month:	0.0 % (6A) 0.0 % (6B)
Minimum disi Total number Average disin Number of re:	infectant residua of readings this lfectant residual adings with a lo	s month: d value: ow residual:	system: 186 3.13 0 0 0	0.5 mg/L, measured as Total (required) (8) Percentage of readings with a low r	residual this month:	
Minimum disi Total number Average disin Number of rea Number of rea	infectant residua of readings this afectant residual adings with a lo adings with no c	s month: il value: ow residual: detectable residual:	system: 186 (at least 120 3.13 0 0 ADDITIONAL	0.5 mg/L, measured as Total (required) (8) Percentage of readings with a low r Percentage of readings with a low r	residual this month: residual last month:	
Minimum disi Total number Average disin Number of rea Number of rea	infectant residua of readings this nfectant residual adings with a lo adings with no t	s month: il value; ow residual; detectable residual; blic Notices) Is not require	system:	0.5 mg/L, measured as Total (required) (8) Percentage of readings with a low r	residual this month: residual last month:	
Minimum disi Total number Average disin Number of rea Number of rea The Page 1 Additional rea	infectant residua of readings this afectant residual adings with a lo adings with no t Addendum (Put	s month: il value: ow residual: detectable residual:	system: 186 3.13 0 0 0 ADDITIONAL ad because there were no equired:	0.5 mg/L, measured as Total (required) (8) Percentage of readings with a low representage of readings with a low representation of the reading representation of the rea	residual this month: residual last month: //reporting violations reported.	0.0 % (6B)
Minimum disi Total number Average disin Number of rea Number of rea The Page 1 Additional r	infectant residua of readings this afectant residual adings with no to adings with no to Addendum (Puk report(s) for indi	s month: il value: ow residual: detectable residual: blic Notices) Is not require	system: 186 (at least 120 3.13 0 0 0 ADDITIONAL ed because there were no equired: submitted:	0.5 mg/L, measured as Total (required) (8) Percentage of readings with a low representage of readings	residual this month: residual last month: residual last month:	0.0 % (6B)
Minimum disi Total number Average disin Number of rea Number of rea The Page 1 Additional r	infectant residua of readings this afectant residual adings with no to adings with no to Addendum (Puk report(s) for indi	s month: il value: ow residual: detectable residual: blic Notices) Is not require lividual filter monitoring re lividual filter monitoring su	system: 186 (at least 120 3.13 0 0 0 ADDITIONAL ed because there were no equired: submitted:	0.5 mg/L, measured as Total (required) (8) Percentage of readings with a low representage of readings	residual this month: residual last month: residual last month:	0.0 % (6B)
Minimum disi Total number Average disin Number of rea Number of rea The Page 1 Additional r	infectant residua of readings this afectant residual adings with no to adings with no to Addendum (Puk report(s) for indi	s month: il value: ow residual: detectable residual: blic Notices) Is not require lividual filter monitoring re lividual filter monitoring su	system: 186 (at least 120 3.13 0 0 0 ADDITIONAL ad because there were no equired: submitted:	0.5 mg/L, measured as Total (a) required) (8) Percentage of readings with a low representage of readin	residual this month: residual last month: //reporting violations reported. // Filter Assessment (10)	0.0 % (6B)
Minimum disi Total number Average disin Number of rea Number of rea The Page 1 Additional r	infectant residua of readings this afectant residual adings with no to adings with no to Addendum (Puk report(s) for indi	s month: il value: ow residual: detectable residual: blic Notices) Is not require lividual filter monitoring re lividual filter monitoring su s are required this month.	system: 186 3.13 0 0 0 ADDITIONAL ad because there were no equired: ubmitted: STATISTICAL	0.5 mg/L, measured as Total (a) required) (8) Percentage of readings with a low representage of readin	residual this month: residual last month: //reporting violations reported. // Filter Assessment // Filter Assessment (10)	0.0 % (5B) O CPE O CPE (11)
Minimum disi Total number Average disin Number of rea Number of rea The Page 1 Additional r Additional r No additio	infectant residual of readings this afectant residual adings with a loadings with no call addendum (Pubreport(s) for indiceport(s) for indiceports	s month: il value: bw residual: detectable residual: blic Notices) Is not require lividual filter monitoring re lividual filter monitoring su s are required this month. Maximum turbi	system: 186 3.13 0 0 0 ADDITIONAL ad because there were no equired: submitted: STATISTICAL A	0.5 mg/L, measured as Total (a) required) (8) Percentage of readings with a low representage of readin	residual this month: residual last month: freporting violations reported. Filter Assessment Filter Assessment (10) Average turbidity value:	0.0 % (6B) CPE CPE (11) 0.28 NTU
Minimum disi Total number Average disin Number of rea Number of rea The Page 1 Additional r Additional r No additio	infectant residual of readings this adings with a lo adings with no o Addendum (Put report(s) for indi report(s) for indi report(s) for indi conal IFE Reports	s month: il value: bw residual: detectable residual: blic Notices) Is not require lividual filter monitoring re lividual filter monitoring su s are required this month. Maximum turbic Minimum turbic	system: 186 (at least 120 3.13 0 0 0 ADDITIONAL ad because there were no equired: submitted: STATISTICAL Addity reading: dity reading: dity reading:	0.5 mg/L, measured as Total (a) required) (8) Percentage of readings with a low representage of readin	residual this month: residual last month: //reporting violations reported. // Filter Assessment // Filter Assessment (10)	0.0 % (5B) O CPE O CPE (11)
Minimum disi Total number Average disin Number of rea Number of rea The Page 1 Additional r Additional r No additio	infectant residual of readings this addings with a loadings with no cadings wi	s month: il value: bw residual: detectable residual: blic Notices) Is not require lividual filter monitoring re lividual filter monitoring su s are required this month. Maximum turbic Minimum turbic 95th percentile to	system: 186 3.13 0 0 0 0 ADDITIONAL ad because there were no equired: ubmitted: STATISTICAL Addity reading: dity reading: value:	0.5 mg/L, measured as Total (a) required) (8) Percentage of readings with a low representage of readin	residual this month: residual last month: //reporting violations reported. // Filter Assessment // Filter Assessment (10) Average turbidity value: Standard deviation:	0.0 % (5B) CPE CPE (11) 0.28 NTU 0.119 NTU
Minimum disi Total number Average disin Number of rea Number of rea The Page 1 Additional r Additional r No additio	infectant residual of readings this of readings with a lo adings with no o Addendum (Put report(s) for indi report(s) for indi onal IFE Reports cettled Water Stastical Summary	s month: il value: bw residual: detectable residual: blic Notices) Is not require lividual filter monitoring re lividual filter monitoring su s are required this month. Maximum turbic 95th percentile v Maximum IFE to	system: 186 3.13 0 0 0 0 ADDITIONAL ad because there were no equired: submitted: STATISTICAL Addity reading: dity reading: value: surbidity reading:	0.5 mg/L, measured as Total (a) required) (8) Percentage of readings with a low representage of readin	residual this month: residual last month: freporting violations reported. Filter Assessment Filter Assessment (10) Average turbidity value:	0.0 % (6B) CPE CPE (11) 0.28 NTU
Minimum disi Total number Average disin Number of rea Number of rea The Page 1 Additional r Additional r No additio	infectant residual of readings this addings with a loadings with no cadings wi	s month: il value: bw residual: detectable residual: blic Notices) Is not require lividual filter monitoring re lividual filter monitoring su s are required this month. Maximum turbic 95th percentile v Maximum IFE to	system: 186 (at least 120 3.13 0 0 0 ADDITIONAL ad because there were no equired: submitted: STATISTICAL Addity reading: dity reading: value: surbidity reading: surbidity reading: surbidity reading:	0.5 mg/L, measured as Total (a) required) (8) Percentage of readings with a low representage of readings with a low representage of readings with a low representage of readings with a low representation of readings with a	residual this month: residual last month: //reporting violations reported. // Filter Assessment // Filter Assessment (10) Average turbidity value: Standard deviation:	0.0 % (6B) CPE CPE (11) 0.28 NTU 0.119 NTU
Minimum disi Total number Average disin Number of rea Number of rea The Page 1 Additional r Additional r No additio	infectant residual of readings this of readings with a lo adings with no o Addendum (Put report(s) for indi report(s) for indi report(s) for indi conal IFE Reports settled Water Stastical Summary IFE Stastical Summary	s month: d value: bw residual: detectable residual: blic Notices) Is not require lividual filter monitoring re lividual filter monitoring su s are required this month. Maximum turbic 95 th percentile v Maximum IFE tu Minimum IFEtu 95 th percentile l	system: 186 (at least 120 3.13 0 0 0 ADDITIONAL ad because there were no equired: submitted: STATISTICAL Addity reading: dity reading: value: surbidity reading: surbidity reading: surbidity reading:	0.5 mg/L, measured as Total (required) (8) Percentage of readings with a low representage of readings	residual this month: residual last month: //reporting violations reported. // Filter Assessment // Filter Assessment (10) Average turbidity value: Standard deviation:	0.00 % (6B) CPE CPE (11) 0.28 NTU 0.119 NTU 0.06 NTU 0.021 NTU
Minimum disi Total number Average disin Number of rea Number of rea The Page 1 Additional r Additional r No additio	infectant residual of readings this affectant residual adings with a lo adings with no o Addendum (Put report(s) for indi report(s) for indi report(s) for indi conal IFE Reports settled Water Stastical Summary IFE Stastical	s month: d value: bw residual: detectable residual: blic Notices) Is not require lividual filter monitoring re lividual filter monitoring su s are required this month. Maximum turbic 95 th percentile w Maximum IFE tu 95 th percentile w Maximum IFE tu 95 th percentile w Maximum IFE tu	system: 186 3.13 0 0 0 0 ADDITIONAL ad because there were no equired: ubmitted: STATISTICAL Addity reading: dity reading: value: urbidity reading: urbidity reading: urbidity reading: IFE value:	0.5 mg/L, measured as Total (a) required) (8) Percentage of readings with a low representage of readings with a low representation of readings with a low	residual this month: residual last month: //reporting violations reported. // Filter Assessment // Filter Assessment (10) Average turbidity value: Standard deviation: Average IFE turbidity value: Standard deviation:	0.0 % (6B) CPE CPE (11) 0.28 NTU 0.119 NTU 0.06 NTU 0.021 NTU

SURFACE WATER MONTHLY OPERATING REPORT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155) P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

STATISTICAL ANALYSIS OF pH DATA

7.49 pH

7.12 pH

7.41 pH

7.30 pH

0.069 pH

Average pH value:

Standard deviation:

95th percentile CFE value:

Maximum pH reading:

Minimum pH reading:

95th percentile value:

Summary

Last Zone pH

Stastical

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER Summary Page

PLANT NAME

PUBLIC WATER	OULE COAST WATER AUTHORITY	TYCITY	PLANT NAME OR NUMBER:	SWTP - THOMAS MACK	EY WTP - BRAZOS
SYSTEM NAME:	GULF COAST WATER AUTHORITY	IXCITI	I certify that am familiar with the inform	mation contained in this report and that	
PWS ID No.:	0840153		to the best of my knowledge, the inform	nation is true, complete, and accurate.	
Plant ID No.: Report for	14813	Operator's Signature:	attorio C.	Jan	
the Month of:	October 2020	Certificate No. & Grade:	WO0041290, A	Date:	November 5, 2020
		TREATME	NT PLANT PERFORMANCE	(1.3.1) (1.0.1) (2.3.1) (1.0.1)	
Total number o	f turbidity readings:	186	Number of 4-hour periods when plant		0
the state of the s	dings above 0.10 NTU:		Number of 4-hour periods when plant but turbidity data was not collected:	was on-line	0
The second secon	dings above 0.3 NTU: dings above 0.5 NTU:		Number of days when plant was on-lin	ne	
The second secon	dings above 1.0 NTU:		but individual filter turbidity data was		0
Maximum allov	vable turbidity level:	0.3	Number of days with readings above	1.0 NTU:	0 (2)
Percentage of I	readings above this limit:	0.0 % (1)	Number of days with readings above	5.0 NTU:	0 (3)
Number of day	s with a low CT		Average log inactivation for Giardia:		4.30 128.08
for no more tha	an 4.0 consecutive hours:	0	Average log inactivation for viruses:	version and the stands	120.08
	s with a low CT 1.0 consecutive hours:	0 (4)	Number of days when profiling data w Number of days when CT data was no		0
	fectant residual required leaving the		0.5 mg/L, measured as Total Ch	lorine	
	s with a low residual		Minimum pH in the last disinfection zo	one:	7.00
	an 4.0 consecutive hours:	0	Number of days with pH below 7.0 in t	the last disinfection zone:	0.00
Number of day	s with a low residual		Number of days when disinfectant res		
	1.0 consecutive hours:	0 (5)	leaving the plant was not properly mo	nitored:	<u> </u>
		DIS	TRIBUTION SYSTEM		
Minimum disinfe	ctant residual required in distribution	n system:	0.5 mg/L, measured as Total Chi	lorine	
	readings this month:	186 (at least 120		idual this month	0.0 % (6A)
Avarage distant-	tant recidual value:	2 1/	Percentage of readings with a low res	idual triis month.	0.0 7.5 (0.1.)
Average disinfec		-			
Number of reading	ngs with a low residual:	0	Percentage of readings with a low res	idual last month:	0.0 % (6B)
Number of reading		0 0			0.0 % (6B)
Number of readii Number of readii	ngs with a low residual: ngs with no detectable residual:	0 0 0 ADDITIONAL	L REPORTS & WORKSHEETS	The Property of the Property o	0.0 % (6B)
Number of reading Number of reading The Page 1 Add	ngs with a low residual: ngs with no detectable residual: dendum (Public Notices) is not requ	ADDITIONAl	L REPORTS & WORKSHEETS treatment technique or monitoring/re	porting violations reported.	
Number of reading Number of reading Number of reading Number of reading Number 1 Add Number 1 Ad	ngs with a low residual: ngs with no detectable residual: dendum (Public Notices) is not requents)	ADDITIONAl ired because there were no required:	L REPORTS & WORKSHEETS treatment technique or monitoring/re	porting violations reported. Filter Assessment	○ CPE
Number of readi Number of readi The Page 1 Add Additional repo	ngs with a low residual: ngs with no detectable residual: dendum (Public Notices) is not requort(s) for individual filter monitoring ort(s) for individual filter monitoring	ADDITIONAl ired because there were no required:	L REPORTS & WORKSHEETS treatment technique or monitoring/re	porting violations reported.	○ CPE
Number of readi Number of readi The Page 1 Add Additional repo	ngs with a low residual: ngs with no detectable residual: dendum (Public Notices) is not requents)	ADDITIONAl ired because there were no required:	L REPORTS & WORKSHEETS treatment technique or monitoring/re	porting violations reported. Filter Assessment	○ CPE
Number of readi Number of readi The Page 1 Add Additional repo	ngs with a low residual: ngs with no detectable residual: dendum (Public Notices) is not requort(s) for individual filter monitoring ort(s) for individual filter monitoring	ADDITIONAl ired because there were no required:	L REPORTS & WORKSHEETS treatment technique or monitoring/re	porting violations reported. Filter Assessment	○ CPE
Number of readi Number of readi The Page 1 Add Additional repo	ngs with a low residual: ngs with no detectable residual: dendum (Public Notices) is not requort(s) for individual filter monitoring ort(s) for individual filter monitoring	ADDITIONAl ired because there were no required: submitted: 6	L REPORTS & WORKSHEETS treatment technique or monitoring/re	porting violations reported. O Eilter Assessment O Filter Assessment (10	O CPE O CPE (11)
Number of readin Number of readin The Page 1 Add Additional repo Additional repo No additional	ngs with a low residual: ngs with no detectable residual: dendum (Public Notices) is not requent(s) for individual filter monitoring ort(s) for individual filter monitoring if IFE Reports are required this mont ed-Water Maximum-tured	ADDITIONAL ired because there were no required: submitted: h. STATISTICAL bidity-reading:	L REPORTS & WORKSHEETS treatment technique or monitoring/report of the profile o	porting violations reported. O Filter Assessment O Filter Assessment (10	O.33_NTU
Number of readin Number of readin The Page 1 Add Additional repo Additional No additional Setti	ngs with a low residual: ngs with no detectable residual: dendum (Public Notices) is not requent(s) for individual filter monitoring ort(s) for individual filter monitoring IFE Reports are required this mont ed-Water Maximum-tur astical Minimum tur	ADDITIONAL ired because there were not required: submitted: h. STATISTICAL bidity reading: bidity reading:	L REPORTS & WORKSHEETS o treatment technique or monitoring/report of the profile	porting violations reported. O Filter Assessment O Filter Assessment (10	O CPE O CPE (11)
Number of readin Number of readin The Page 1 Add Additional repo Additional repo No additional Settt St Su	ngs with a low residual: ngs with no detectable residual: dendum (Public Notices) is not requ ort(s) for individual filter monitoring ort(s) for individual filter monitoring I IFE Reports are required this mont ed Water astical Minimum tur mmary 95 th percentil	ADDITIONAL ired because there were no required: submitted: h. STATISTICAL bidity-reading: bidity reading: e value:	L REPORTS & WORKSHEETS o treatment technique or monitoring/report of the profile	porting violations reported. O Filter Assessment O Filter Assessment (10 A Average turbidity value: Standard deviation:	O.33 NTU 0.122 NTU
Number of readin Number of readin The Page 1 Add Additional repo Additional No additional Setti	ngs with a low residual: ngs with no detectable residual: dendum (Public Notices) is not requent(s) for individual filter monitoring ort(s) for individual filter monitoring if FE Reports are required this mont ded Water astical Minimum turn mary 95th percentil	ADDITIONAL ADDITIONAL fred because there were not required: submitted: h. STATISTICAL bidity reading: bidity reading: e value: E turbidity reading:	L REPORTS & WORKSHEETS o treatment technique or monitoring/report of the profile	porting violations reported. O Filter Assessment O Filter Assessment (10	O.33_NTU
Number of readin Number of readin The Page 1 Add Additional repo Additional No additional Setttl St Su	ngs with a low residual: ngs with no detectable residual: dendum (Public Notices) is not requent(s) for individual filter monitoring ort(s) for individual filter monitoring if IFE Reports are required this mont ed-Water Maximum-ture astical Minimum ture mmary 95th percentil	ADDITIONAL ired because there were not required: submitted: h. STATISTICAL bidity reading: bidity reading: e value: turbidity reading: turbidity reading:	L REPORTS & WORKSHEETS treatment technique or monitoring/report of the profile o	porting violations reported. O Filter Assessment O Filter Assessment (10 A Verage-turbidity value: Standard deviation: Average IFE turbidity value:	O.33 NTU 0.122 NTU 0.05 NTU
Number of readin Number of readin Number of readin The Page 1 Add Additional repo Additional repo No additional Settl St Su	ngs with a low residual: ngs with no detectable residual: dendum (Public Notices) is not requent(s) for individual filter monitoring ort(s) for individual filter monitoring if IFE Reports are required this mont with the monitoring of the monitoring if IFE Reports are required this mont if IFE Reports are required this mont if IFE Maximum turns astical Minimum turns yes in percentil if IFE Maximum IFE astical Minimum IFE minary 95th percentil	ADDITIONAL ired because there were not required: submitted: h. STATISTICAL bidity reading: bidity reading: e value: turbidity reading: turbidity reading:	L REPORTS & WORKSHEETS o treatment technique or monitoring/report of the profile	porting violations reported. O Filter Assessment O Filter Assessment (10 A Verage turbidity value: Standard deviation: Average IFE turbidity value: Standard deviation: Average CFE turbidity value:	O.33 NTU 0.33 NTU 0.122 NTU 0.05 NTU 0.018 NTU 0.04 NTU
Number of readin Number of readin Number of readin The Page 1 Add Additional repo Additional repo No additional Setti St Su St	ngs with a low residual: ngs with no detectable residual: dendum (Public Notices) is not requent(s) for individual filter monitoring ort(s) for individual filter monitoring if IFE Reports are required this mont ed Water Maximum turnstical Minimum turnstical Minimum turnstical Minimum IFE astical Minimum IFE astical Minimum IFE mmary 95th percentil CFE Maximum CF	ADDITIONAL ired because there were no required: submitted: h. STATISTICAL bidity reading: e value: turbidity reading: turbidity reading: e IFE value: E turbidity reading: E turbidity reading: E turbidity reading:	L REPORTS & WORKSHEETS of treatment technique or monitoring/reports of treatment of treatm	porting violations reported. Filter Assessment Filter Assessment (10 Average turbidity value: Standard deviation: Average IFE turbidity value: Standard deviation:	O.33 NTU 0.33 NTU 0.122 NTU 0.05 NTU 0.018 NTU

SURFACE WATER MONTHLY OPERATING REPORT

STATISTICAL ANALYSIS OF PH DATA

7.29 pH

7.00 pH

7.22 pH

Maximum pH reading:

Minimum pH reading:

95th percentile value:

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155) P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

7.09 pH

0.075 pH

Average pH value:

Standard deviation:

Last Zone pH

Stastical

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER Summary Page

PLANT NAME

SYSTEM NAME:	GULF COAST WATER	R AUTHORITY TX CITY	OR NUMBER:	SWIP - THOMAS MACKE	
DWO ID N	0040450			e information contained in this report and that, e information is true, complete, and accurate.	
PWS ID No.: Plant ID No.:	0840153 14813	Operator's Signature:	11-1	1) Sam	
Report for	14013		000-00000		
the Month of:	November 2020	Certificate No. & Grad	e: WO0041290, A	Date:	December 3, 2020
		TREATIV	ENT PLANT PERFORMANCE		
Total number o	of turbidity readings:	180	Number of 4-hour periods when	plant was off-line:	0
A CONTRACTOR OF THE PROPERTY O	dings above 0.10 NTU:	0	Number of 4-hour periods when		0
	dings above 0.3 NTU: dings above 0.5 NTU:	0	but turbidity data was not collect Number of days when plant was		
	dings above 1.0 NTU:	0	but individual filter turbidity data		0
Maximum allow	vable turbidity level:	0.3	Number of days with readings ab	oove 1.0 NTU:	0 (2)
Percentage of r	readings above this lim	nit: 0.0 % (1)	Number of days with readings ab	oove 5.0 NTU:	0 (3)
Number of days			Average log inactivation for Giard		3.55 107.50
Number of days	an 4.0 consecutive hou	rs: <u>0</u>	Average log inactivation for virus Number of days when profiling d		0
	1.0 consecutive hours:	0 (4)	Number of days when CT data wa		0
Minimum disint	fectant residual require	ed leaving the plant:	0.5 mg/L, measured as Tota	al Chlorine	
	s with a low residual		Minimum pH in the last disinfecti	ion zone:	<u>7.01</u>
for no more tha	an 4.0 consecutive hou	rs: <u>0</u>	Number of days with pH below 7.	.0 in the last disinfection zone:	0.00
	s with a low residual	0 (5)	Number of days when disinfectar leaving the plant was not properly		0
for more than 4	1.0 consecutive hours:	0 (5)	leaving the plant was not proper	y monitorea.	
	A Section of Section 1	DI	STRIBUTION SYSTEM		
Minimum disinfe	ctant residual required	in distribution system:	0.5 mg/L, measured as Tota	al Chlorine	
	readings this month:	180 (at least 12 3.10	20 required) (8) Percentage of readings with a love	w residual this month:	0.0 % (6A)
	tant residual value: ngs with a low residual		referrage of readings with a lov	residual tills mentil	
	ngs with no detectable	***************************************	Percentage of readings with a lov	w residual last month:	0.0 % (6B)
	er and well and the	ADDITION	AL REPORTS & WORKSHEET	rs (
The Page 1 Add	dendum (Public Notices	s) is not required because there were i	no treatment technique or monitorin	ng/reporting violations reported.	
	ort(s) for individual filte		NONE O Filter Profile	O Filter Assessment	O CPE
			NONE O Filter Profile (9)	O Filter Assessment (10)	O CPE (11)
No additional	I IFE Reports are requir	ed this month.			
THE PERSONNELS OF THE PERSONNE					
		STATISTICAL	. ANALYSIS OF TURBIDITY D	OATA A	
Settle	ed Water	Maximum turbidity reading:	0.49 NTU	Average turbidity value:	0.22 NTU
Sta	astical	Minimum turbidity reading:	0.14 NTU	Standard deviation:	0.064 NTU
Sur	mmary !	95 th percentile value:	0.36 NTU		
4000000000000	IFE	Maximum IFE turbidity reading:	0.34 NTU	Average IFE turbidity value:	0.05 NTU
ACCESS TO SERVICE	astical	Minimum IFEturbidity reading:	0.02 NTU 0.07 NTU	Standard deviation:	0.021_ NTU
Sur	astical mmary	95 th percentile IFE value:	0.07 NTU		
Sur	astical mmary :			Standard deviation: Average CFE turbidity value: Standard deviation:	0.021 NTU 0.007 NTU

SURFACE WATER MONTHLY OPERATING REPORT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155) P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

STATISTICAL ANALYSIS OF PH DATA

7.80 pH

7.01 pH

7.28 pH

7.16 pH

0.140 pH

Average pH value:

Standard deviation:

Summary

Last Zone pH

Stastical

Summary

95th percentile CFE value:

Maximum pH reading:

Minimum pH reading: 95th percentile value:

PUBLIC WATER

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER Summary Page

PUBLIC WATER SYSTEM NAME:	GULF COAST WATE	R AUTHORITY T	X CITY		PLANT NAME OR NUMBER:	SWTP - THOMAS MACK	EY WTP - BRAZOS
		NAOTHE	(01.		at ham familiar with the info	ormation contained in this report and that	ıt,
PWS ID No.:	0840153		Operator's Signature:	to the bes	it of my knowledge, the info	ormation is true, complete, and accurate.	
Plant ID No.: Report for	14813		Operator's Signature.		Mario	D. Juni	
the Month of:	December 2020		Certificate No. & Grade	e: <u>WO0041</u>	290, A	Date:	January 6, 2021
			TREATM	ENT PLANT F	PERFORMANCE		
	f turbidity readings:	_	186		our periods when plan		0
	lings above 0.10 NTU: lings above 0.3 NTU:	-	0		our periods when plan lata was not collected:		0
Number of read	lings above 0.5 NTU:		0	Number of day	ys when plant was on-l	line	
	lings above 1.0 NTU:	-	0		filter turbidity data was		0 (2)
	vable turbidity level:	· Ē	0.3		ys with readings above		0 (3)
	readings above this li	nit: L	0.0 % (1)		ys with readings above		
Number of days	s with a low CT an 4.0 consecutive ho	ure:	0		activation for Giardia: activation for viruses:		<u>2.78</u> 87.97
Number of days		113.			s when profiling data		0
	1.0 consecutive hours	: [0 (4)		ys when CT data was n		0
Minimum disint	fectant residual requi	red leaving the pla	ant:	0.5 mg/L	, measured as Total Cl	hlorine	
The property of the party of th	s with a low residual			Minimum pH i	n the last disinfection z	zone:	7.20
for no more tha	n 4.0 consecutive ho	urs:	0			the last disinfection zone:	0.00
and the state of t	s with a low residual		0 (5)		s when disinfectant re ant was not properly me		0
for more than 4	.0 consecutive nous.	L	<u> </u>	leaving the pic	Int was not properly	ontoieu.	
		-		*************************	THE MATRICE WELL SHOW THE PROPERTY OF THE PARTY OF THE PA		
				STRIBUTION	SYSTEM		
	ctant residual require	d in distribution s	system:	0.5 mg/L,	, measured as Total Ch	hlorine	
Total number of r	readings this month:	d in distribution s	system: 186 (at least 120	0.5 mg/L, 0 required) (8	, measured as Total Ch)		0.0 % (6A)
Total number of r Average disinfec			system:	0.5 mg/L, 0 required) (8	, measured as Total Ch		
Total number of r Average disinfect Number of readin	readings this month: tant residual value:	al: _	system: 186 3.09	0.5 mg/L, 0 required) (8 Percentage of	, measured as Total Ch)	sidual this month:	0.0 % (6A) 0.0 % (6B)
Total number of r Average disinfect Number of readin	readings this month: tant residual value: ngs with a low residua	al: _	system: 186 3.09 0 0	0.5 mg/L, 0 required) (8 Percentage of Percentage of	, measured as Total Ch) readings with a low re	sidual this month:	
Total number of r Average disinfect Number of readir Number of readir	readings this month: tant residual value: ngs with a low residua ngs with no detectable	al: - - - - - - -	system: 186 3.09 0 ADDITIONA	0.5 mg/L, 0 required) (8 Percentage of Percentage of	, measured as Total Ch) readings with a low re- readings with a low re- & WORKSHEETS	esidual this month:	
Total number of r Average disinfect Number of readir Number of readir The Page 1 Add	readings this month: tant residual value: ngs with a low residua ngs with no detectable	al: e residual: es) is not required	### ADDITIONA #### System: 186	0.5 mg/L, 0 required) (8 Percentage of Percentage of	, measured as Total Ch) readings with a low re- readings with a low re- & WORKSHEETS	sidual this month:	
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STATISTICAL ANALYSIS OF pH DATA

7.36 pH

7.20 pH

7.33 pH

SURFACE WATER MONTHLY OPERATING REPORT
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155) P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

7.27 pH

0.039 pH

Average pH value:

Standard deviation:

Last Zone pH

Stastical

Summary

Maximum pH reading:

Minimum pH reading:

95th percentile value:



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LABORATORY SERVICES SECTION, MC-1947 1100 W. 49th St., Austin, Tx. 78756 (512)458-7587

***SINGLE MINERAL Analysis Report**

Submitter Identification Number: 0840153

GULF COAST WATER AUTHORITY TX CITY JONES, RUSSELL, C 3630 HIGHWAY 1765 TEXAS CITY, TX 77591-4824

Lab Sample ID#: AE97238

Sample Priority: NORMAL

Water Source:

TCEQ ID#(s): 2031359

Date Reported: 02/20/2020

Report ID#: 20200220105420AE97238

Date Collected: 02/06/2020 11:32

Date Received: 02/07/2020

Sample Cond.: Acceptable

Analyte	Result	Unit	Method	Date/Time Analyzed	Analyst
Total Cyanide ¹	0.12	mg/L	10-204-00-1-X	02/13/2020 12:07	MD

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(1) meet all TNI (2009 Standard) requirements.

Authorized by Team Lead HNGO on 02/19/2020

Entry Point(s): EP001



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LABORATORY SERVICES SECTION, MC-1947 1100 W. 49th St., Austin, Tx. 78756 (512)458-7587

***ALL METALS Analysis Report**

Submitter Identification Number: 0840153

GULF COAST WATER AUTHORITY TX CITY JONES, RUSSELL, C 3630 HIGHWAY 1765 TEXAS CITY, TX 77591-4824

Lab Sample ID#: AE97259

Water Source:

TCEQ ID#(s): 2014297

Sample Priority: NORMAL

Entry Point(s): EP001

Date Reported: 02/20/2020

Report ID#: 20200220105420AE97259

Date Collected: 02/06/2020 11:31 Date Received: 02/07/2020

Sample Cond.: Acceptable

Analyte	Result	Unit	Method	Date/Time Analyzed	Analyst
Acidification	Completed		EPA 200.2	02/07/2020	BF
pH Check	Completed		EPA 200.2	02/10/2020	TH
Turbidity Screen	Completed		SM 2130B	02/10/2020	TH
Visible Particles	Completed			02/10/2020	TH
Total Hardness as CaCO3 by	173	mg/L	SM 2340B	02/10/2020	BF
Calculation					
Aluminum ¹	< 0.0200	mg/L	EPA 200.8	02/11/2020	AS
Antimony 1	< 0.0010	mg/L	EPA 200.8	02/11/2020	AS
Arsenic ¹	< 0.0020	mg/L	EPA 200.8	02/11/2020	AS
Barium ¹	0.107	mg/L	EPA 200.8	02/11/2020	AS
Beryllium ¹	< 0.00080	mg/L	EPA 200.8	02/11/2020	AS
Cadmium ¹	< 0.0010	mg/L	EPA 200.8	02/11/2020	AS
Calcium	49.0	mg/L	EPA 200.7	02/10/2020	BF
Chromium ¹	< 0.0100	mg/L	EPA 200.8	02/11/2020	AS
Copper ¹	0.0078	mg/L	EPA 200.8	02/11/2020	AS
ron ¹	< 0.010	mg/L	EPA 200.7	02/10/2020	BF
Lead ¹	< 0.0010	mg/L	EPA 200.8	02/11/2020	AS
Magnesium ¹	12.4	mg/L	EPA 200.7	02/10/2020	BF
Manganese ¹	< 0.0010	mg/L	EPA 200.8	02/11/2020	AS
Mercury ¹	< 0.00040	mg/L	EPA 245.1	02/14/2020	BF
Nickel 1	0.0028	mg/L	EPA 200.8	02/11/2020	AS
Potassium ¹	4.84	mg/L	EPA 200.7	02/10/2020	BF
Selenium ¹	< 0.0030	mg/L	EPA 200.8	02/11/2020	AS
Silver 1	< 0.0100	mg/L	EPA 200.8	02/11/2020	AS
Sodium ¹	55.5	mg/L	EPA 200.7	02/10/2020	BF
Thallium ¹	< 0.00040	mg/L	EPA 200.8	02/11/2020	AS
Zinc ¹	0.142	mg/L	EPA 200.8	02/11/2020	AS

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(1) meet all TNI (2009 Standard) requirements.

Authorized by Team Lead EBOYER on 02/18/2020



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LABORATORY SERVICES SECTION, MC-1947 1100 W. 49th St., Austin, Tx. 78756 (512)458-7587

*ALL MINERALS **Analysis Report**

Submitter Identification Number: 0840153

GULF COAST WATER AUTHORITY TX CITY JONES, RUSSELL, C 3630 HIGHWAY 1765 TEXAS CITY, TX 77591-4824

Lab Sample ID#: AE97229

Sample Priority: NORMAL TCEQ ID#(s): 2016961

Water Source:

Entry Point(s): EP001

Date Reported: 02/25/2020

Report ID#: 20200225140512AE97229

Date Collected: 02/06/2020 11:32 Date Received: 02/07/2020

Sample Cond.: Acceptable

Analyte	Result	Unit	Method	Date/Time Analyzed	Analyst
Field pH Result	7.9	pН			
Diluted Conductance @ 25.0 °C 1	707	µmho/cm	SM 2510 B	02/11/2020 08:30	AD
Phenolphthalein Alkalinity as CaCO3	<2	mg/L	SM 2320B	02/07/2020 15:13	NP
Total Alkalinity as CaCO3	153	mg/L	SM 2320B	02/07/2020 15:13	NP
Bicarbonate	187	mg/L	SM 2320B	02/07/2020 15:13	NP
Carbonate	<2	mg/L	SM 2320B	02/07/2020 15:13	NP
Fluoride ¹	0.38	mg/L	EPA 300.0	02/14/2020 18:22	NP
Chloride ¹	77	mg/L	EPA 300.0	02/19/2020 12:17	NP
Sulfate ¹	68	mg/L	EPA 300.0	02/14/2020 18:22	NP
Total Dissolved Solids 1	371	mg/L	SM 2540C	02/10/2020 08:12	AD
Nitrate as N ¹	0.50	mg/L	EPA 353.2	02/07/2020 14:10	NP

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(1) meet all TNI (2009 Standard) requirements.

Authorized by Team Lead HNGO on 02/21/2020



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LABORATORY SERVICES SECTION, MC-1947 1100 W. 49th St., Austin, Tx. 78756 (512)458-7587

Semivolatiles Organic Analysis Report

Submitter Identification Number: 0840153

GULF COAST WATER AUTHORITY TX CITY JONES, RUSSELL, C 3630 HIGHWAY 1765 TEXAS CITY, TX 77591-4824

Date Reported: 03/05/2020

Report ID#: 20200305095232AE97406

Lab Sample ID#: AE97406 Sample Priority: NORMAL

2,3-Dichlorobiphenyl

Diethylphthalate

Dieldrin

Water Source :

Entry Point(s): EP001

Date Collected: 02/06/2020 11:30 Date Received: 02/07/2020 Date Analyzed: 02/13/2020 Extraction Date: 02/12/2020 Conc. Units: µg/L
Method: EPA 525.2
Analyst: KL
Sample Cond.: Acceptable

TCEQ ID#(s): 2009474

Regulated Compounds	Result	Qualifier
Alachlor ¹	<0.2	
Atrazine ¹	0.11	N
Benzo[a]pyrene ¹	<0.02	
alpha-Chlordane	<0.2	
gamma-Chlordane	<0.2	
trans-Nonachlor	<0.2	
Di(2-ethylhexyl) adipate 1	<0.6	
Di(2-ethylhexyl) phthalate 1	<0.6	
Heptachlor ¹	<0.04	
Hexachlorobenzene ¹	<0.1	
Hexachlorocyclopentadiene 1	<0.1	*
Lindane ¹	<0.02	
Methoxychlor ¹	<0.1	
Simazine ¹	<0.07	
Monitored Compounds	Result	Qualifier
Acenaphthene	<0.20	
Acenaphthylene	<0.20	
Aldrin	<0.20	
Anthracene	<0.20	
Benzo(a)anthracene	<0.20	
Benzo[b]fluoranthene	<0.20	
Benzo[g,h,i]perylene	<0.20	
Benzo[k]fluoranthene	<0.20	
Bromacil	<0.20	
Butachlor	<0.20	
	<2.0	
Butylbenzylphthalate		
Butylbenzylphthalate 2-Chlorobiphenyl	<0.20	
	<0.20 <0.20	
2-Chlorobiphenyl		
2-Chlorobiphenyl Chrysene	<0.20	

Monitored Compounds continued	Result	Qualifier
Dimethylphthalate	<2.0	
Fluorene	<0.20	
2,2',3,3',4,4',6-Heptachlorobiphenyl	<0.50	
2,2',4,4',5,6'-Hexachlorobiphenyl	<0.20	
Indeno[1,2,3-cd]pyrene	<0.20	
Metolachlor	<0.20	
Metribuzin	<0.20	
Naphthalene	<0.20	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	<0.50	
2,2',3',4,6-Pentachlorobiphenyl	<0.20	
Phenanthrene	<0.20	
Propachlor	<0.20	
Pyrene	<0.20	
2,2',4,4'-Tetrachlorobiphenyl	<0.20	
2,4,5-Trichlorobiphenyl	<0.20	
Trifluralin	<0.20	
Comments:		

N - See sample comments.

EPA M525.2: presence of atrazine confirmed by previous analyses per the Texas Drinking Water watch website. The test results on this report relate only to the sample identified on this report. The test results for analytes noted(1) meet all TNI (2009 Standard) requirements.

Authorized by Team Lead AVINYARD on 03/04/2020

< 0.20

< 0.20

<2.0

^{* -} This analyte has known instability and/or method performance issues and quantitation should be considered approximate.



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LABORATORY SERVICES SECTION, MC-1947 1100 W. 49th St., Austin, Tx. 78756 (512)458-7587

Pesticides by Method 508.1 Analysis Report

Submitter Identification Number: 0840153

GULF COAST WATER AUTHORITY TX CITY JONES, RUSSELL, C 3630 HIGHWAY 1765 TEXAS CITY, TX 77591-4824

Date Reported: 03/05/2020

Report ID#: 20200305095232AE97406

Water Source : Date Collected : 02/06/2020 11:30

Date Analyzed: 02/19/2020

Analyst : JH Sample Cond. : Acceptable

Lab Sample ID#: AE97406

Sample Priority: NORMAL TCEQ ID#(s): 2009474

Water Gource

Entry Point(s): EP001

 Regulated Compounds
 Result
 Qualifier

 Chlordane ¹
 <0.20</td>

 Endrin ¹
 <0.01</td>

 Heptachlor epoxide ¹
 <0.02</td>

 Toxaphene ¹
 <1.0</td>

 Comments:

EPA M525.2: presence of atrazine confirmed by previous analyses per the Texas Drinking Water watch website. The test results on this report relate only to the sample identified on this report. The test results for analytes noted(¹) meet all TNI (2009 Standard) requirements.

Authorized by Team Lead AVINYARD on 03/04/2020



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LABORATORY SERVICES SECTION, MC-1947 1100 W. 49th St., Austin, Tx. 78756 (512)458-7587

Trihalomethanes by GC/MS **Analysis Report**

Submitter Identification Number: 0840153

GULF COAST WATER AUTHORITY TX CITY JONES, RUSSELL, C 3630 HIGHWAY 1765 TEXAS CITY, TX 77591-4824

Lab Sample ID#: AF12323

Sample Priority: NORMAL

Water Source:

Entry Point(s): DBP2-01

TCEQ ID#(s): 2054957

Date Reported: 06/11/2020

Report ID#: 20200611094017AF12323

Conc. Units: µg/L

Date Collected: 05/21/2020 09:36

Date Received: 05/22/2020 Method: EPA 524.2 Analyst: KL Date Analyzed: 06/02/2020

Sample Cond.: Acceptable

Trihalomethanes	Result	Qualifier
Chloroform	4.4	
Bromodichloromethane	10.5	
Dibromochloromethane	15.0	
Bromoform	5.9	
Total Trihalomethanes 1	35.8	
Comments:		

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(1) meet all TNI (2009 Standard) requirements.

Authorized by Group Manager TDUNN on 06/09/2020



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LABORATORY SERVICES SECTION, MC-1947 1100 W. 49th St., Austin, Tx. 78756 (512)458-7587

Haloacetic Acids Analysis Report

Submitter Identification Number: 0840153

GULF COAST WATER AUTHORITY TX CITY JONES, RUSSELL, C 3630 HIGHWAY 1765 TEXAS CITY, TX 77591-4824

Lab Sample ID#: AF12323

TCEQ ID#(s): 2054957

Sample Priority: NORMAL

Water Source:

Entry Point(s): DBP2-01

Date Collected: 05/21/2020 09:36

Date Received: 05/22/2020

Date Analyzed: 05/30/2020

Extraction Date: 05/28/2020

Date Reported : 06/11/2020

Conc. Units: µg/L

Report ID#: 20200611094017AF12323

Method: 552.2 Rev 1.0

Analyst: BF

Sample Cond.: Acceptable

Regulated Compounds	Result	Qualifier
Monochloroacetic acid	<2.0	
Dichloroacetic acid	4.9	
Trichloroacetic acid	1.8	
Monobromoacetic acid	<1.0	
Dibromoacetic acid	4.9	
Total HAA5 1	11.6	
Monitored Compounds	Result	Qualifier
Bromochloroacetic acid	4.8	
Dalapon	<1.0	
Comments:		

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(1) meet all TNI (2009 Standard) requirements.

Authorized by Group Manager TDUNN on 06/09/2020



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LABORATORY SERVICES SECTION, MC-1947 1100 W. 49th St., Austin, Tx. 78756 (512)458-7587

Volatile Organic Compounds by GC/MS Analysis Report

Submitter Identification Number: 0840153

GULF COAST WATER AUTHORITY TX CITY JONES, RUSSELL, C 3630 HIGHWAY 1765 TEXAS CITY, TX 77591-4824

Lab Sample ID#: AF19499

TCEQ ID#(s): 2007049

cis-1,3-Dichloropropene

trans-1,3-Dichloropropene

Sample Priority: NORMAL

Water Source:

Entry Point(s): EP001

Date Reported: 08/13/2020

Report ID#: 20200813091200AF19499

Date Collected: 07/15/2020 11:35

Date Received: 07/16/2020 Date Analyzed: 07/24/2020 Conc. Units: µg/L Method: EPA 524.2

Analyst: TB Sample Cond.: Acceptable

Regulated Cmpds.[40 CFR 141.61(a)]	Result	Qualifier	Monitored Cmpds.[40 CFR 141.40(j)]	Result	Qualifier
Benzene ¹	<0.5		1,2,4-Trimethylbenzene	<1.0	
Carbon tetrachloride ¹	<0.5		1,2,3-Trichlorobenzene	<1.0	
Monochlorobenzene 1	<0.5		n-Propylbenzene	<1.0	
o-Dichlorobenzene 1	<0.5		n-Butylbenzene	<1.0	
para-Dichlorobenzene 1	<0.5		Naphthalene	<1.0	
1,2-Dichloroethane ¹	<0.5		Hexachlorobutadiene	<1.0	
1,1-Dichloroethylene 1	<0.5		1,3,5-Trimethylbenzene	<1.0	
cis-1,2-Dichloroethylene 1	<0.5		4-Isopropyltoluene	<1.0	
rans-1,2-Dichloroethylene 1	<0.5		Isopropylbenzene	<1.0	
1,2-Dichloropropane 1	<0.5		t-Butylbenzene	<1.0	
Dichloromethane 1	<0.5		s-Butylbenzene	<1.0	
Ethylbenzene 1	<0.5		Trichlorofluoromethane	<2.0	
Styrene ¹	<0.5		Dichlorodifluoromethane	<2.0	
Tetrachloroethylene ¹	<0.5		Bromochloromethane	<1.0	
Toluene ¹	<0.5		Other Compounds	Result	Qualifie
1,2,4-Trichlorobenzene ¹	<0.5			-10	
I,1,1-Trichloroethane ¹	<0.5		Acetone	<10	
,1,2-Trichloroethane 1	<0.5		Acrylonitrile	<10	
Frichloroethylene 1	<0.5		2-Butanone (MEK)	<10	
/inyl chloride ¹	<0.5		Carbon disulfide	<1.0	
(ylenes (total) 1	<0.5		Ethyl methacrylate	<1.0	
Ionitored Cmpds.[40 CFR 141.40(e)]	Result	Qualifier	2-Hexanone	<1.0	
		***************************************	lodomethane	<5.0 <1.0	
Chloroform	3.6		Methyl methacrylate	<2.0	
Bromodichloromethane	9.6		4-Methyl-2-pentanone (MIBK)	<0.5	
Dibromochloromethane	13		Methyl-t-butyl ether (MTBE)	<5.0	
Bromoform	4.9		Tetrahydrofuran	\5.0	
Dibromomethane	<1.0		Comments:		
1,3-Dichlorobenzene	<1.0				
1,1-Dichloropropene	<1.0		The test results on this report relate only to the sample identified on this report. The test results for analytes noted(1)		
1,1-Dichloroethane	<1.0				
1,1,2,2-Tetrachloroethane	<1.0		meet all TNI (2009 Standard) requirement		
1,3-Dichloropropane	<1.0		Authorized by Team Lead CJON		1
Chloromethane	<2.0		Authorized by Team Lead Oboli	20 011 00/11/2020	•
Bromomethane	<2.0				
1,2,3-Trichloropropane	<1.0				
1,1,1,2-Tetrachloroethane	<1.0				
Chloroethane	<2.0				
2,2-Dichloropropane	<1.0				
2-Chlorotoluene	<1.0				
4-Chlorotoluene	<1.0				
Bromobenzene	<1.0				

<1.0

<1.0